APPENDIX III

30. TERMINAL INITIALIZATION DATA

30.1 Scope. This appendix defines the initialization data stored in the Terminal non-volatile memory.

30.2 Initialization Data Word Blocks. There shall be 64 Initialization Data Word Blocks numbered from 0 to 63. These blocks contain 32 words each and are specified in 30.4.1 through 30.4.23. This appendix is used for initialization data for the F-15, Army, E-3, Navy Shipboard, Navy Airborne and MCE Terminals. Any unique F-15 or Army initialization data is provided within this appendix and is shown by various "NOTES" throughout. Some unique Navy Shipboard and Navy Airborne initialization data is provided within this appendix. Additional unique Navy Shipboard and Navy Airborne initialization data is provided in either Appendix VIII or IX. Unique E-3 Terminal initialization data is provided in Appendix X. Unique MCE Terminal initialization data is provided in Appendix XI. Table III-I summarizes the applicability of each Initialization Block to each platform.

30.3 Initialization Data Information.

30.3.1 Operational Requirements. Normally, initialization data will be provided to the terminal from the Host. A capability, specific to Navy Shipboard and Navy Airborne, will be retained so that selected memory locations in the DPG can be interrogated (via Terminal Input Message 16 – see 80.1.4.6.6).

30.3.2 Interface Requirements. The MIL-STD-1553 multiplex bus can be used to convey all memory locations, interrogations, and/or updates. Each word is transmitted with Bit "15" being the first bit transmitted. For the numerical parameters illustrated on the following pages the bit values are assigned such that the MSB of any field is the bit transmitted first.

The SACP can also be used to convey and request the initialization data specified in this Appendix. See 50.1.3.3 in Appendix V for SACP protocol.

30.3.2.1 Spare Fields. All fields defined as "Spare", "Reserved", "For Test Purposes Only" or "Not Used" shall be set to LOGIC 0 by the Host during an initialization load unless otherwise specified.

30.3.2.2 Default Values. The default values specified in this Appendix will be loaded by the terminal during Start-Up and when the Host sends a Block 0 with the Load Command field set to "Restart Load Using Defaults" (See 80.1.4.6.1.1). During such an initialization load, if the Host assigns values different from the default, the Host assignments will take precedence. The defaults specified for Navy Airborne are used for both the E-2C and the F-14D unless otherwise specified.

30.4 Initialization Data. The following initialization data will be stored in non-volatile memory.

TABLE III-I. Initialization Block Summary

Block No.	Paragraph	F-15 App. VI	Army App. VII	Navy Ship App. VIII	Navy Air App. IX	E-3 App. X	MCE App. XI
0	30.4.1	X	X	X+	X+	X	X+
1	30.4.2	X	X	X+	X+	X	X+
2	30.4.3	X	X	X+	X+	X	X+
3-15	30.4.4	X	X	X+	X+	X	
16	30.4.5	X	X	+	+	X	X+
17-19	30.4.6	X	X	X	X	X	X
20	30.4.7	X	X	X+	X+	X	X
21	30.4.7	X	X	X	X	X	X
22	30.4.8	X	X	X	X	X	X
23	30.4.9	X	X	+	+	X	X+
24	30.4.10	X	X	+	+	X	X
25	30.4.11	X	X				
26-43	30.4.12		X				
44	30.4.13			X	X		
45-54	30.4.14		X				
55	30.4.15		X				
56	30.4.16			+	+	+	+
57	30.4.17			+	+	+	+
58	30.4.18			+	+	+	
59	30.4.19			+			
60	30.4.20	X	X			X	X+
61	30.4.21	X	X			X	X+
62	30.4.22	X	X			X	X
63	30.4.23	X	X	X+	X+	X	X+

KEY:
X   Information in Appendix III applies
X+   Information in Appendix III applies and additional information is provided in the applicable unique IU interface appendix.
+   Information is provided in the applicable unique IU interface appendix.

30.4.1 Initialization Data Block 0.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM															
wd 2	CONTROL WORD															
wd 3	LOAD COMMAND AND BLOCK COUNT															
wd 4	PLATFORM IDENTIFIER															
wd 5	NOT USED															
wd 6	NOT USED															
wd 7	NOT USED															
wd 8	NOT USED															
wd 9	NOT USED															
wd 10	NOT USED															
wd 11	NOT USED															
wd 12	NOT USED															
wd 13	NOT USED															
wd 14	NOT USED															
wd 15	NOT USED															
wd 16	NOT USED															
wd 17	NOT USED															
wd 18	NOT USED															
wd 19	NOT USED															
wd 20	NOT USED															
wd 21	NOT USED															
wd 22	NOT USED															
wd 23	NOT USED															
wd 24	NOT USED															
wd 25	NOT USED															
wd 26	NOT USED															
wd 27	NOT USED															
wd 28	NOT USED															
wd 29	NOT USED															
wd 30	NOT USED															
wd 31	NOT USED															
wd 32	NOT USED															

30.4.1.1 <u>Checksum Word</u>. (Word 1 of all Initialization Data Blocks)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM															

The checksum will be a sequential EXCLUSIVE OR computation of each aligned bit of the words in the block except the Checksum word itself. All words not included within the designated word count will be set to zero.

30.4.1.2 <u>Control Word for Initialization</u>.   (Word 2 of all Initialization Data Blocks)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 2	BLOCK ID						STARTING DATA WORD					DATA WORD COUNT				

For Initialization Data Block 0 this word shall be set to LOGIC 0.

BIT | DESIGNATION

0-4   Data Word Count. The number of contiguous valid data words including the Starting Data Word.
RANGE = 1-30

5-9   Starting Data Word (using the Internal Word Number)H. The first word of the 32-word Initialization block in which valid data is available.
RANGE = 2-31

Word "2" is the first data word or, equivalently, the third actual word in a block. Similarly, word "31" is the last data word or, equivalently, the thirty-second actual word in a block.

10-15   Block ID. The data block being transferred.
RANGE = 0-63

NOTE: The sum of the Data Word Count and the Starting Data Word must be # 32.

H Externally, in this document and other equivalent documents, the word numbers in all Initialization and Status Blocks range from 1 to 32. However, internally, the DPG uses word numbers 0 to 31.

INITIALIZATION BLOCK 0

30.4.1.3 Load Command and Block Count Word. Count Word. (Block 0, Word 3)

		MSB														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3	LOAD COM- MAND										BLOCK COUNT					

The bit designation shall be as follows:

BIT	DESIGNATION

0-5   BLOCK COUNT
The block count is the number of initialization data blocks, excluding the initial and final initialization data block zeroes, transferred by the host during initialization start-up and initialization restart. A maximum of 63 initialization data block transfers are allowed, including repeated blocks (the number of which must be added to the block count). The block count is valid in the final initialization data block 0 (when the load command field is set to "LOAD COMPLETE"). The block count filed is "DON'T CARE" in the initial initialization data block 0 (when the command field is set to "RESTART LOAD USE CURRENT DATA" or "RESTART LOAD USE DEFAULTS").
RANGE = 0 - 63

6-13   NOT USED

14-15   LOAD COMMAND

BIT 15 • 14
       •••••••
        0 • 0   NO STATEMENT
        0 • 1   LOAD COMPLETE
        1 • 0   RESTART LOAD USE CURRENT DATA
        1 • 1   RESTART LOAD USE DEFAULTS

INITIALIZATION BLOCK 0

30.4.1.4 Platform Identifier. (Block 0, Word 4)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 4												PLATFORM IDENTIFIER				

MSB (above bit 15) ... LSB (above bit 0)

The bit designation shall be as follows:

BIT | DESIGNATION

0-4 | PLATFORM IDENTIFIER

```
BIT   4 • 3 • 2 • 1 • 0
      ••••••••••••••••••
      0 • 0 • 0 • 0 • 0   NO STATEMENT
      0 • 0 • 0 • 0 • 1   E-2C
      0 • 0 • 0 • 1 • 0   F-14D
```

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique Platform Identifier field, see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique Platform Identifier field, see Appendix VIII.

FOR MCE:
For the MCE unique Platform Identifier field, see Appendix XI.

5-15 | SPARE

INITIALIZATION BLOCK 0

30.4.2 Initialization Data Block 1.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 1 (SEE 30.4.1.2)															
wd 3	RF MODE															
wd 4	PRIMARY TRACK NUMBER															
wd 5	TERMINAL FUNCTION WORD 1															
wd 6	TERMINAL FUNCTION WORD 2															
wd 7	TERMINAL FUNCTION WORD 3															
wd 8	STATION POSITION LAT (COARSE)															
wd 9	STATION POSITION LAT (FINE)															
wd 10	STATION POSITION LONG (COARSE)															
wd 11	STATION POSITION LONG (FINE)															
wd 12	HOST PLATFORM ANTENNA HEIGHT															
wd 13	POSITION UNCERTAINTY/STATION POSITION VALIDITY WORD															
wd 14	REFERENCE GRID ORIGIN LAT (COARSE)															
wd 15	REFERENCE GRID ORIGIN LAT (FINE)															
wd 16	REFERENCE GRID ORIGIN LONG (COARSE)															
wd 17	REFERENCE GRID ORIGIN LONG (FINE)															
wd 18	REFERENCE GRID ID (RESERVED)															
wd 19	DEFAULT NET NUMBER															
wd 20	DEFAULT VARIABLES															
wd 21	SDU VARIABLE CODE WORD 1															
wd 22	SDU VARIABLE CODE WORD 2															
wd 23	SDU VARIABLE CODE WORD 3															
wd 24	SDU VARIABLE CODE WORD 4															
wd 25	TRANSMIT DELAY CONSTANTS															
wd 26	DIGITAL VOICE															
wd 27	ETR CABLE DELAY															
wd 28	CABLE DELAY ANTENNA A															
wd 29	CABLE DELAY ANTENNA B															
wd 30	RECEIVE CABLE DELAY CONSTANT															
wd 31	TRANSMIT CABLE DELAY CONSTANT															
wd 32	LOOPBACK DELAY VALUE															

30.4.2.1 RF Mode Word. (Block 1, Word 3)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3	N J R M	TEST		XMIT			RCV ANT CONF		H P A P	EOC		IPF OVER		R A N G E	COMM MODE	

The bit designation shall be as follows:

BIT   DESIGNATION

0-1   COMMUNICATIONS MODE

        BIT   1 • 0
               •••••••
                0 • 0   NOT USED
                0 • 1   MODE 1
                1 • 0   MODE 2
                1 • 1   MODE 4

        FOR NAVY SHIPBOARD:
        For the Navy Shipboard unique Communications Mode
        field, see Appendix VIII.

        FOR NAVY AIRBORNE:
        For the Navy Airborne unique Communications Mode field,
        see Appendix VIII.

2   TDMA RANGE
        LOGIC 0 = NORMAL RANGE
                300 NMI - DEFAULT VALUE
        LOGIC 1 = EXTENDED RANGE
                500 NMI - (ONLY FOR STANDARD AND P2-SP)

INITIALIZATION BLOCK 1

BIT	DESIGNATION

3-4   INTERFERENCE PROTECTION FEATURE OVERRIDE (IPF)

          BIT   4 • 3
                 •••••••
                 0 • 0   OFF, 100/20
                 0 • 1   EXERCISE
                 1 • 0   COMBAT
                 1 • 1   OFF, 100/50

          FOR NAVY SHIPBOARD:
          For the Navy Shipboard unique Interference Protection
          Feature Override field, see Appendix VIII.

          FOR NAVY AIRBORNE:
          For the Navy Airborne unique Interference Protection Feature
          Override field, see Appendix VIII.

5-6   EXCITER OUTPUT CONTROL (EOC)

          BIT 6 • 5
                 •••••••
                 0 • 1   EXCITER OUTPUT J8; TDMA/TACAN-R/T
                   •   PA OFF
                 0 • 0   EXCITER OUTPUT OFF; R/T PA LOW POWER
                   •   (LOW POWER)
                 1 • 0   EXCITER OUTPUT OFF; R/T PA HIGH
                   •   POWER (200 WATTS)
                 1 • 1   EXCITER OUTPUT J8-TDMA ONLY; R/T
                   •   TRANSMIT TACAN

          FOR NAVY SHIPBOARD:
          For the Navy Shipboard unique Exciter Output Control field,
          see Appendix VIII.

          FOR NAVY AIRBORNE:
          For the Navy Airborne unique Exciter Output Control field,
          see Appendix VIII.

INITIALIZATION BLOCK 1

BIT   DESIGNATION

7   HPA PRESENT (HPAP)
           LOGIC 0 = HPA NOT PRESENT
           LOGIC 1 = HPA PRESENT

           FOR NAVY SHIPBOARD:
           For the Navy Shipboard unique HPA Present field, see
           Appendix VIII.

           FOR NAVY AIRBORNE:
           For the Navy Airborne unique HPA Present field, see Appendix
           VIII.

8-9   RECEIVE ANTENNA CONFIGURATION (RCV ANT CONF)

           BIT   9 • 8
                 •••••••
                 0 • 0   DUAL ANTENNA
                 0 • 1   ANTENNA A
                 1 • 0   ANTENNA B
                 1 • 1   NOT USED

           FOR NAVY SHIPBOARD:
           For the Navy Shipboard unique Receive Antenna configuration
           field, see Appendix VIII.

           FOR NAVY AIRBORNE:
           For the Navy Airborne unique Receive Antenna configuration
           field, see Appendix VIII.

INITIALIZATION BLOCK 1

BIT   DESIGNATION

10-12   TDMA TRANSMISSION MODE (XMIT)

           BIT   12 • 11 • 10
                 • • • • • • • • • • • • • •
                  0 • 0 • 0   TDMA OFF
                  0 • 0 • 1   NORMAL
                  0 • 1 • 0   POLLING
                  1 • 0 • 0   SILENT
                  1 • 1 • 1   LONG TERM TRANSMIT INHIBIT

           THE OTHER VALUES ARE NOT USED.

           FOR NAVY SHIPBOARD:
           For the Navy Shipboard unique TDMA Transmission Mode field,
           see Appendix VIII.

           FOR NAVY AIRBORNE:
           For the Navy Airborne unique TDMA Transmission Mode field,
           see Appendix VIII.

           FOR MCE:
           For the MCE unique TDMA Transmission Mode field, see
           Appendix XI.

13-14   TEST MODE (TEST)

           BIT   14 • 13
                 • • • • • • • • •
                  0 • 0   NO TEST MESSAGE
                  0 • 1   TEST 1
                  1 • 0   TEST 2
                  1 • 1   NOT USED

NOTE: IN TEST MODE 1, TEST MESSAGES WILL BE TRANSMITTED IN ALL TRANSMIT
        SLOTS EXCEPT THOSE IN THE INITIAL ENTRY AND RTT NPGS.

        IN TEST MODE 2, TEST MESSAGES WILL BE TRANSMITTED IN UNUSED
        DEDICATED ACCESS TRANSMIT SLOTS EXCEPT THOSE IN THE INITIAL
        ENTRY, RTT, VOICE AND CONTROL NPGS.

        (TEST MODE 2 IS, IN EFFECT, A SUBSET OF TEST MODE 1.)

        IF TACAN IS "OFF" OR CAPABILITY TO RECEIVE VIA J8 NOT APPLICABLE
        THEN R/T PA OFF.

                                        INITIALIZATION BLOCK 1

BIT   DESIGNATION

15   NORMAL/J8 RECEIVE MODE (NJRM)
           LOGIC 0 = RECEIVE NORMAL
           LOGIC 1 = RECEIVE J8

           FOR NAVY SHIPBOARD:
           For the Navy Shipboard unique R/T Receiver Configuration
           field, see Appendix VIII.

           FOR NAVY AIRBORNE:
           For the Navy Airborne unique R/T Receiver Configuration
           field, see Appendix VIII.

INITIALIZATION BLOCK 1

30.4.2.2 Primary Track Number. (Block 1, Word 4)

MSB   LSB

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 4		PRIMARY TN														

The bit designation shall be as follows:

BIT	DESIGNATION
0-14	PRIMARY TRACK NUMBER. RANGE = 00000 - 77777 (OCTAL) 00000 (OCTAL) = NO STATEMENT - DEFAULT VALUE
	SEE PARAGRAPH 1.1.3 OF JINTACCS JTIDS TIDP.
15	NOT USED

INITIALIZATION BLOCK 1

30.4.2.3 Terminal Function Word 1. (Block 1, Word 5)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 5	RF LOOPBACK CONTROL			HPA OUTPUT LEVEL			I P	R/T CONF		R F O	P O O L	N T R	P R	NAV		

The bit designation shall be as follows:

BIT   DESIGNATION

0-2   ORGANIZATIONAL USER TYPE (NAV)

                BIT   2 • 1 • 0
                      • • • • • • • • • •
                      0 • 0 • 1   SECONDARY USER
                      0 • 1 • 0   PRIMARY USER - DEFAULT VALUE
                      1 • 0 • 0   NAVIGATION CONTROLLER
                      1 • 0 • 1   SECONDARY NAVIGATION CONTROLLER

                        ALL OTHER VALUES ARE NOT USED.

3   POSITION REFERENCE (PR)
                LOGIC 1 = TERMINAL ASSIGNED AS A POSITION REFERENCE
                        (PR)
                LOGIC 0 = TERMINAL IS NOT ASSIGNED AS A POSITION
                        REFERENCE - DEFAULT VALUE

4   NET TIME REFERENCE (NTR)
                LOGIC 1 = TERMINAL ASSIGNED AS THE NET TIME REFERENCE
                        (NTR)
                LOGIC 0 = TERMINAL IS NOT ASSIGNED AS NTR - DEFAULT
                        VALUE

5   PPLI POOL (POOL)
                LOGIC 1 = POOL B (COMMON POOL)
                LOGIC 0 = POOL (A+B) - DEFAULT VALUE

6   RECORDER FUNCTION ON (RFO)
                LOGIC 1 = RECORDER FUNCTION ON
                LOGIC 0 = RECORDER FUNCTION OFF - DEFAULT VALUE

INITIALIZATION BLOCK 1

BIT	DESIGNATION

7-8   R/T RECEIVER CONFIGURATION (R/T CONF)

```
BIT    8 • 7
       • • • • • • •
       0 • 0     FOUR (4) RECEIVER ARMY
             •       CONFIGURATION
       0 • 1     FOUR (4) RECEIVER UK CONFIGURATION
       1 • 0     EIGHT (8) RECEIVER ARMY OR F-15
             •       CONFIGURATION
       1 • 1     NOT USED
```

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique R/T Receiver Configuration field, see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique R/T Receiver Configuration field, see Appendix VIII.

9   INPUT PRIORITY (IP) FOR F-15 ONLY
           LOGIC 0 = TERMINAL RESPONDS TO LAST RECEIVED INPUT FOR THOSE
                     INPUTS THAT CAN ARRIVE EITHER AS INITIALIZATION
                     DATA OR VIA A DISCRETE
           LOGIC 1 = TERMINAL RESPONDS TO DISCRETES ONLY

FOR NAVY AIRBORNE:
For the Navy Airborne unique Input Priority field, see Appendix VIII.

10-12   HPA OUTPUT LEVEL

```
BIT    12 • 11 • 10
       • • • • • • • • • • • • • •
       0 •  0 •  0
       0 •  0 •  1    HIGH POWER
       0 •  1 •  0    LOW POWER MODE
       0 •  1 •  1    HPA POWER LEVELS ZERO
          •      •    THROUGH SEVEN
       1 •  0 •  0    (SET TO ZERO IF HPA IS NOT
          •      •    PRESENT)
       1 •  0 •  1
       1 •  1 •  0
       1 •  1 •  1
```

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique HPA Output Buffers field, see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique HPA Output Buffers field, see Appendix VIII.

                                        INITIALIZATION BLOCK 1

BIT   DESIGNATION

13-15   RF LOOPBACK CONTROL

             BIT   15 • 14 • 13   R/T MODE   DDP MODE
                   • • • • • • • • • • • • • •
                    0 • 0 • 0   DUAL
                    0 • 0 • 1   DUAL   SINGLE
                    0 • 1 • 0   SINGLE   DUAL
                    0 • 1 • 1   SINGLE
                    1 • 0 • 0   SINGLE   (ALTERNATE BETWEEN
                         •   •   ANTENNA A AND B)
                    1 • 0 • 1   NOT USED   NOT USED
                    1 • 1 • 0   NOT USED   NOT USED
                    1 • 1 • 1   NOT USED   NOT USED

             FOR NAVY SHIPBOARD:
             For the Navy Shipboard unique RF Loopback Control field, see
             Appendix VIII.

             FOR NAVY AIRBORNE:
             For the Navy Airborne unique RF Loopback Control field, see
             Appendix VIII.

                                             INITIALIZATION BLOCK 1

30.4.2.4 Terminal Function Word 2. (Block 1, Word 6)

	MSB														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 6						O T M D				C C P D		SEQ		N E T E	E T R	T R P

The bit designation shall be as follows:

BIT	DESIGNATION

0   TAPE RECORDER PORT SELECTION (TRP)
             LOGIC 1 = TSRD
             LOGIC 0 = MUX (HOST)

             FOR NAVY SHIPBOARD:
             For the Navy Shipboard unique Tape Recorder Port Selection field, see Appendix VIII.

             FOR NAVY AIRBORNE:
             For the Navy Airborne unique Tape Recorder Port Selection field, see Appendix VIII.

1   EXTERNAL TIME REFERENCE (ETR)
             LOGIC 1 = THE TERMINAL IS ENABLED TO USE EXTERNAL TIME REFERENCE (ETR) DATA AS A KALMAN FILTER OBSERVATION; IF DESIGNATED AS A NET TIME REFERENCE (NTR), THE TERMINAL SHALL ESTIMATE SYNCHRONIZATION STATES AND SHALL TRANSMIT AN HONEST TIME QUALITY.
             LOGIC 0 = THE TERMINAL SHALL NOT USE ETR DATA AS A KALMAN FILTER OBSERVATION; IF DESIGNATED AS AN NTR, THE TERMINAL SHALL NOT ESTIMATE SYNCHRONIZATION STATES AND SHALL TRANSMIT A TIME QUALITY OF 15 - DEFAULT VALUE.

     NOTES: 1) IF ETR IS SET TO LOGIC 1 AND THE TERMINAL IS NOT DESIGNATED AS AN NTR, THEN THE TERMINAL WILL ATTEMPT TO ACHIEVE FINE SYNCHRONIZATION USING ETR DATA, IF IT IS AVAILABLE AND HAS EQUAL OR BETTER TIME QUALITY THAN POTENTIAL RTT INTERROGATION SOURCES, AFTER COARSE SYNC HAS BEEN ACHIEVED.

            2) IF THE TERMINAL IS DESIGNATED AS AN NTR, THEN THE ETR BIT HAS SERIOUS IMPLICATIONS TO COMMUNITY SYNCHRONIZATION IN THE ABSENCE OF ETR DATA. IF THE ETR BIT IS SET UNDER THESE CONDITIONS, THE COMMUNITY WILL HAVE NO EFFECTIVE TIME REFERENCE, AND TIME QUALITIES WILL DEGRADE SLOWLY.

                             INITIALIZATION BLOCK 1

BIT	DESIGNATION

2   NET ENTRY TRANSMIT ENABLE (NETE)
           LOGIC 1 = TRANSMIT NET ENTRY MESSAGE

           FOR NAVY SHIPBOARD:
           For the Navy Shipboard unique Net Entry Transmit Enable
           field, see Appendix VIII.

           FOR NAVY AIRBORNE:
           For the Navy Airborne unique Net Entry Transmit Enable
           field, see Appendix VIII.

3-5   SEQUENCE NUMBER (SEQ) (0-7)
             0 = 24 HOUR CRYPTO PERIOD - DEFAULT VALUE
           1-7 = 7-DAY CRYPTO PERIOD WITH THE INDIVIDUAL VALUE
           INDICATING THE CURRENT DAY.

NOTE: WHEN SEQUENCE = 0, THE CRYPTO VARIABLES ARE ROLLED OVER AT THE
        END OF EACH DAY OF THE MISSION. WHEN SEQUENCE > 0, THE CRYPTO
        VARIABLES ARE ROLLED OVER ONLY AT THE END OF THE SEVENTH DAY.

6   CURRENT CRYPTO PERIOD DESIGNATOR (CCPD)
           LOGIC 1 = CURRENT CRYPTO PERIOD IS ONE
           LOGIC 0 = CURRENT CRYPTO PERIOD IS ZERO - DEFAULT VALUE

NOTE: COMPLETE VALIDITY CHECKING/ACCEPTANCE OF OTHER PARAMETERS WHICH
        DEPEND ON THIS PARAMETER IS NOT PERFORMED WHEN THIS VARIABLE IS
        ENTERED AS A DATA CHANGE. TO AVOID PROBLEMS, A "RESTART LOAD: USE
        CURRENT DATA" (SEE 30.4.1.3) IS REQUIRED TO ACTIVATE VALIDITY
        CHECKING. FURTHERMORE, OPERATIONAL STATUS OF VOICE CHANNELS THAT
        MAY BE AFFECTED BY THIS PARAMETER SHOULD BE VERIFIED BY A HOST
        REQUEST (SEE 80.1.4.6.6.1 AND 80.1.4.8.1.6.2.1) FOR STATUS BLOCK
        3 (SEE 40.5.3).

7-9   NOT USED

10   OTAR MODE (OTMD)
           LOGIC 1 = OTAR MODE

NOTE: THE CRYPTO VARIABLE IN SDU LOCATION 5 SHALL BE RETAINED THROUGH
        ROLLOVER. A VARIABLE CODE (CVLL) AND A CRYPTO PERIOD DESIGNATOR
        FOR LOCATION 5 (BLOCK 1, WORD 23, BITS 8-15) ARE UNNECESSARY.

           LOGIC 0 = NOT OTAR MODE (DEFAULT)

11-14   NOT USED

                                    INITIALIZATION BLOCK 1

BIT	DESIGNATION
15	NOT USED, EXCEPT BY E-3

FOR E-3:
For the E-3 value of this bit, see Appendix X.

INITIALIZATION BLOCK 1

30.4.2.5 <u>Terminal Function Word 3</u>. (Block 1, Word 7)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 7							PATH	XMIT TYPE		STRENGTH				PLATFORM TYPE		

MSB is at bit 15, LSB is at bit 0.

The bit designation shall be as follows:

<u>BIT</u>   <u>DESIGNATION</u>

0-2   PLATFORM TYPE

BIT   2 • 1 • 0
       • • • • • • • • • •
       0 • 0 • 0   NOT USED
       0 • 0 • 1   NOT USED
       0 • 1 • 0   AIR (DEFAULT FOR NAVY AIR)
       0 • 1 • 1   SURFACE (DEFAULT FOR NAVY SHIP,
        •   •   TEST-ONLY FOR NAVY AIR)
       1 • 0 • 0   SUBSURFACE
       1 • 0 • 1   GROUND POINT (DEFAULT FOR MCE,
        •   •   TEST-ONLY FOR NAVY AIR AND SHIP)
       1 • 1 • 0   GROUND TRACK
       1 • 1 • 1   NOT USED

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique Platform Type field, see
Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique Platform Type field, see
Appendix VIII.

3-6   STRENGTH
SEE JINTACCS JTIDS TIDP VOLUME II, PART 2, DFI-386,
DIU-013.

INITIALIZATION BLOCK 1

```
BIT   6 • 5 • 4 • 3
      ••••••••••••••••
      0 • 0 • 0 • 0   NO STATEMENT
      0 • 0 • 0 • 1   1 UNIT - DEFAULT VALUE
      0 • 0 • 1 • 0   2 UNITS
      0 • 0 • 1 • 1   3 UNITS
      0 • 1 • 0 • 0   4 UNITS
      0 • 1 • 0 • 1   5 UNITS
      0 • 1 • 1 • 0   6 UNITS
      0 • 1 • 1 • 1   7 UNITS
      1 • 0 • 0 • 0   8 UNITS
      1 • 0 • 0 • 1   9 UNITS
      1 • 0 • 1 • 0   10 UNITS
      1 • 0 • 1 • 1   11 UNITS
      1 • 1 • 0 • 0   12 UNITS
      1 • 1 • 0 • 1   2-7 (FEW UNITS)
      1 • 1 • 1 • 0   > 7 (MANY) UNITS
      1 • 1 • 1 • 1   > 12 UNITS
```

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique Strength field, see Appendix
VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique Strength field, see Appendix
VIII.

INITIALIZATION BLOCK 1

BIT   DESIGNATION

7-8   PLATFORM TRANSMIT TYPE (XMIT TYPE)

          BIT   8 • 7
                •••••••
                0 • 0   NO DELAYS BEYOND R/T OTHER THAN
                    •   CABLE AND ANT
                0 • 1   SINGLE ANT XMIT WITH DELAY ELEMENTS
                    •   BEYOND R/T
                1 • 0   DUAL ANT XMIT WITH DELAY ELEMENTS
                    •   BEYOND R/T
                0 • 1   NOT USED

          FOR NAVY SHIPBOARD:
          For the Navy Shipboard unique Platform Transmit Type field,
          see Appendix VIII.

          FOR NAVY AIRBORNE:
          For the Navy Airborne unique Platform Transmit Type field,
          see Appendix VIII.

9   RF LOOPBACK PATH
          LOGIC 0 = NOT PERFORMED BEYOND R/T
          LOGIC 1 = INCLUDES ELEMENTS BEYOND R/T

          FOR NAVY SHIPBOARD:
          For the Navy Shipboard unique RF Loopback Path field, see
          Appendix VIII.

          FOR NAVY AIRBORNE:
          For the Navy Airborne unique RF Loopback Path field, see
          Appendix VIII.

10-15   NOT USED

                                        INITIALIZATION BLOCK 1

30.4.2.6 Station Position Latitude. (Block 1, Words 8 and 9)

		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB																LSB
wd 8 (COARSE)	M S B	STATION LATITUDE															
wd 9 (FINE)		STATION LATITUDE							L S B								

The bit designation shall be as follows:

WORD 8

BIT	DESIGNATION
0-15	16 MSB'S OF 24-BIT STATION LATITUDE (WGS-84) IN BAM. REMAINING 8 BITS ARE LOCATED IN STATION LATITUDE (FINE) WORD.

WORD 9

BIT	DESIGNATION
0-7	NOT USED
8-15	8 LSB'S OF 24-BIT STATION LATITUDE IN BAM. REMAINING 16 BITS ARE LOCATED IN STATION LATITUDE (COARSE) WORD.

$$LSB = \pi \times 2^{-23} \quad RAD$$

$$RANGE = -\pi/2 \quad TO + \pi/2 \quad RAD$$

NOTE: Above data is valid/invalid per Block 1, Word 13, Bit 15.

INITIALIZATION BLOCK 1

30.4.2.7 <u>Station Position Longitude</u>. (Block 1, Words 10 and 11)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 10 (COARSE)	M S B						STATION LONGITUDE									
wd 11 (FINE)		STATION LONGITUDE						L S B							

MSB ... LSB

The bit designation shall be as follows:

WORD 10

BIT	DESIGNATION
0-15	16 MSB'S OF 24-BIT STATION LONGITUDE (WGS-84) IN BAM. REMAINING 8 BITS ARE LOCATED IN STATION LONGITUDE (FINE) WORD.

WORD 11

BIT	DESIGNATION
0-7	NOT USED
8-15	8 LSB'S OF 24-BIT STATION LONGITUDE IN BAM. REMAINING 16 BITS ARE LOCATED IN STATION LONGITUDE (COARSE) WORD.

$$\text{LSB} = \pi \times 2^{-23} \quad \text{RAD}$$

$$\text{RANGE} = -\pi \text{ TO } (+\pi - \text{LSB}) \text{ RAD}$$

NOTE: Above data is valid/invalid as per Block 1, Word 13, Bit 15.

INITIALIZATION BLOCK 1

30.4.2.8 <u>Host Platform Antenna Height</u>. (Block 1, Word 12)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 12	HEIGHT															

The bit designation shall be as follows:

BIT	DESIGNATION
0-15	HOST PLATFORM ANTENNA HEIGHT. INITIAL ESTIMATE OF HEIGHT ABOVE MEAN SEA LEVEL. IN TWO'S COMPLEMENT. LSB: 1 FOOT RANGE: -32,768 TO 32,767 FEET

NOTE: Above data is valid/invalid as per Block 1, Word 13, Bit 15.

30.4.2.9 <u>Position Uncertainty/Station Position Validity Word</u>. (Block 1, Word 13).

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 13	V						Hu					Pu				

Position uncertainties correspond to either Dead Reckoning position data provided by the Host or to valid Station Latitude, Station Longitude, and Host Platform Antenna Height in Block 1, words 8-12.

The bit designation shall be as follows:

BIT	DESIGNATION
0-4	HORIZONTAL POSITION UNCERTAINTY (Pu), CODING: 0-31

DEFINITION: One-sigma uncertainty in Station Position. A value of 0 signifies that uncertainty is greater than 60,000 Feet - Default Value. A value between 1 and 31 is the greatest number for which $60{,}000 * (1.575^{(1-Pu)})$ feet is greater than or equal to the horizontal position uncertainty. (See Table III-II for correspondence between Pu and horizontal position uncertainty.)

INITIALIZATION BLOCK 1

TABLE III-II. HORIZONTAL POSITION AND HEIGHT UNCERTAINTY

QUALITY LEVEL (Pu OR Hu)	APPROXIMATE UNCERTAINTY (FEET)
31	# 0.07
30	# 0.11
29	# 0.18
28	# 0.28
27	# 0.45
26	
25	# 0.70
24	# 1.1
23	# 1.7
22	# 2.7
	# 4.3
21	
20	
19	# 6.8
18	# 10.7
17	# 16.9
	# 26.6
16	# 41.8
15	
14	
13	# 65.9
12	# 103.8
	# 163.5
11	# 257.5
10	# 405.6
9	
8	
7	# 638.8
	# 1006.1
6	# 1584.6
5	# 2495.7
4	# 3930.7
3	
2	# 6190.8
1	# 9750.5
0	# 15,357.1
	# 24,187.5
	# 38,095.2
	# 60,000
	> 60,000

INITIALIZATION BLOCK 1

BIT   DESIGNATION

5-9   HEIGHT UNCERTAINTY (Hu), CODING: 0-31

            DEFINITION: One-sigma uncertainty in Height. A value of 0
            signifies that uncertainty is greater than 60,000 feet –
            default value. Values 1 through 31 - reported value is the
            greatest number for which $60,000 * (1.575^{(1-Hu)})$ feet is
            greater than or equal to the height uncertainty. (See Table
            III-II for correspondence between Hu and height
            uncertainty.)

            FOR NAVY SHIPBOARD:
            For the Navy Shipboard unique Height Uncertainty field, see
            Appendix VIII.

            FOR NAVY AIRBORNE:
            For the Navy Airborne unique Height Uncertainty field, see
            Appendix VIII.

10-14   SPARE

15   STATION POSITION VALIDITY (V)

            DEFINITION: A value of 0 signifies that Station Latitude,
            Longitude, and Height (in Words 8-12 of
            this block) are not valid - Default Value.

            A value of 1 signifies that Station Latitude, Longitude, and
            Height (in words 8-12 of this block) are valid.

INITIALIZATION BLOCK 1

30.4.2.10 Reference Grid Origin Latitude. (Block 1, Words 14 and 15)

	MSB														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 14 (COARSE)	M S B	REFERENCE GRID ORIGIN LATITUDE														
wd 15 (FINE)	REFERENCE GRID ORIGIN LATITUDE							L S B							

The bit designation shall be as follows:

WORD 14

BIT   DESIGNATION

0-15   16 MSB'S OF 24-BIT REFERENCE GRID ORIGIN LATITUDE (WGS-84) (IN BAM). REMAINING 8 BITS ARE LOCATED IN REFERENCE GRID ORIGIN LATITUDE (FINE) WORD

        FOR NAVY SHIPBOARD:
        For the Navy Shipboard unique Reference Grid Origin Latitude (Coarse) field, see Appendix VIII.

        FOR NAVY AIRBORNE:
        For the Navy Airborne unique Reference Grid Origin Latitude (Coarse) field, see Appendix VIII.

WORD 15

BIT   DESIGNATION

0-7   NOT USED

8-15   8 LSB'S OF 24-BIT REFERENCE GRID ORIGIN LATITUDE (IN BAM). REMAINING 16 BITS ARE LOCATED IN REFERENCE GRID ORIGIN LATITUDE (COARSE) WORD.
        LSB: π x 2^{-23} RAD
        RANGE: $- \pi$ TO (+ π - LSB) RAD

        VALUES < $-\pi/2$ OR > $\pi/2$ ARE NO STATEMENT VALUES FOR ENTIRE REFERENCE GRID ORIGIN.
        DEFAULT VALUE: $-\pi$ RAD (NO STATEMENT)

INITIALIZATION BLOCK 1

30.4.2.11 <u>Reference Grid Origin Longitude</u>. (Block 1, Words 16 and 17)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 16 (COARSE)	M S B				REFERENCE GRID ORIGIN LONGITUDE											
wd 17 (FINE)	REFERENCE GRID ORIGIN LONGITUDE							L S B								

(MSB at top left, LSB at top right)

The bit designation shall be as follows:

<u>WORD 16</u>

<u>BIT</u>	<u>DESIGNATION</u>
0-15	16 MSB'S OF 24-BIT REFERENCE GRID ORIGIN LONGITUDE (WGS-84) (IN BAM). REMAINING 8 BITS ARE LOCATED IN REFERENCE GRID ORIGIN LONGITUDE (FINE) WORD

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique Reference Grid Origin Longitude field, see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique Reference Grid Origin Longitude field, see Appendix VIII.

<u>WORD 17</u>

<u>BIT</u>	<u>DESIGNATION</u>
0-7	NOT USED
8-15	8 LSB'S OF 24-BIT REFERENCE GRID ORIGIN LONGITUDE (IN BAM). REMAINING 8 BITS ARE LOCATED IN REFERENCE GRID ORIGIN LONGITUDE (COARSE) WORD.

LSB: $\pi \times 2^{-23}$ RAD
DEFAULT VALUE: $-\pi$ RAD
RANGE: $-\pi$ TO $(+\pi - \text{LSB})$ RAD

Note: These words are valid if the Reference Grid Origin Latitude in words 14-15 is in the interval $(-\pi/2, \pi/2)$.

30.4.2.12 <u>Reference Grid ID Word</u>. (Block 1, Word 18) Reserved for future growth.

INITIALIZATION BLOCK 1

30.4.2.13 Default Net Number Word. (Block 1, Word 19)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 19										DEFAULT NET						

The bit designation shall be as follows:

BIT   DESIGNATION

0-6   DEFAULT NET NUMBER. NET NUMBER USED FOR UNASSIGNED
                SLOTS AND FOR PPLI AND RTT TIME SLOT ASSIGNMENTS
                RECEIVED IN THE INITIAL ENTRY MESSAGE.
                0-126 = ASSIGNED NET
                  127 = NO STATEMENT
                DEFAULT VALUE = 0

7-15   NOT USED

INITIALIZATION BLOCK 1

30.4.2.14 <u>Default Variables</u>. (Block 1, Word 20)

NOTE: COMPLETE VALIDITY CHECKING/ACCEPTANCE OF OTHER PARAMETERS WHICH
        DEPEND ON THESE PARAMETERS IS NOT PERFORMED WHEN ONE OF THESE
        VARIABLES IS ENTERED AS A DATA CHANGE. TO AVOID PROBLEMS, A
        "RESTART LOAD: USE CURRENT DATA" (SEE 30.4.1.3) IS REQUIRED TO
        ACTIVATE VALIDITY CHECKING. FURTHERMORE, OPERATIONAL STATUS OF
        VOICE CHANNELS THAT MAY BE AFFECTED BY THESE PARAMETERS SHOULD BE
        VERIFIED BY A HOST REQUEST (SEE 80.1.4.6.6.1 AND
        80.1.4.8.1.6.2.1) FOR STATUS BLOCK 3 (SEE 40.5.3).

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 20		DEFAULT TSEC								DEFAULT MSEC						

The bit designation shall be as follows:

<u>BIT</u>   <u>DESIGNATION</u>

0-6   DEFAULT MSEC VARIABLE
                    0 = NO STATEMENT (USE TSEC VALUE FOR ASSIGNED
                        MSEC)
                1-127 = ASSIGNED MSEC
                DEFAULT VALUE = 0

                FOR NAVY SHIPBOARD:
                For the Navy Shipboard unique Default MSEC Variable
                field, see Appendix VIII.

                FOR NAVY AIRBORNE:
                For the Navy Airborne unique Default MSEC Variable
                field, see Appendix VIII.

7   NOT USED

8-14   DEFAULT TSEC VARIABLE
                1-127 = ASSIGNED TSEC
                0 IS AN ILLEGAL VALUE

                FOR NAVY SHIPBOARD:
                For the Navy Shipboard unique Default TSEC Variable
                field, see Appendix VIII.

                FOR NAVY AIRBORNE:
                For the Navy Airborne unique Default TSEC Variable
                field, see Appendix VIII.

15   NOT USED

                                        INITIALIZATION BLOCK 1

30.4.2.15 <u>SDU Variable Code Words</u>. (Block 1, Words 21 through 24) (4 words) variable code for 8 variable locations

> NOTE: COMPLETE VALIDITY CHECKING/ACCEPTANCE OF OTHER PARAMETERS WHICH DEPEND ON THESE PARAMETERS IS NOT PERFORMED WHEN ONE OF THESE VARIABLES IS ENTERED AS A DATA CHANGE. TO AVOID PROBLEMS, A "RESTART LOAD: USE CURRENT DATA" (SEE 30.4.1.3) IS REQUIRED TO ACTIVATE VALIDITY CHECKING. FURTHERMORE, OPERATIONAL STATUS OF VOICE CHANNELS THAT MAY BE AFFECTED BY THESE PARAMETERS SHOULD BE VERIFIED BY A HOST REQUEST (SEE 80.1.4.6.6.1 AND 80.1.4.8.1.6.2.1) FOR STATUS BLOCK 3 (SEE 40.5.3).

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 21 - 24	CPD	VARIABLE CODE FOR LOC N + 1							CPD	VARIABLE CODE FOR LOC N						

The bit designation shall be as follows:

BIT	DESIGNATION
0-6	VARIABLE CODE FOR LOCATION N 0 = NO STATEMENT 1-127 = ASSIGNED VARIABLE CODE FOR NAVY SHIPBOARD: For the Navy Shipboard unique Variable code for Location N field, see Appendix VIII. FOR NAVY AIRBORNE: For the Navy Airborne unique Variable code of Location N field, see Appendix VIII.

7	CRYPTO PERIOD DESIGNATOR (CPD)
	LOGIC 0 = CRYPTO VARIABLE IN LOCATION N IS FOR
	        CRYPTO PERIOD ZERO - DEFAULT VALUE
	LOGIC 1 = CRYPTO VARIABLE IN LOCATION N IS FOR
	        CRYPTO PERIOD ONE

8-14	VARIABLE CODE FOR LOCATION N+1 0 = NO STATEMENT 1-127 = ASSIGNED VARIABLE CODE DEFAULT VALUE = 0

15	CRYPTO PERIOD DESIGNATOR (CPD)
	LOGIC 0 = CRYPTO VARIABLE IN LOCATION N+1 IS FOR CRYPTO
	        PERIOD ZERO - DEFAULT VALUE
	LOGIC 1 = CRYPTO VARIABLE IN LOCATION N+1 IS FOR CRYPTO
	        PERIOD ONE

INITIALIZATION BLOCK 1

NOTES: 1.   N = 2 * [{WORD NUMBER} - 21]

       2.   IF THE CRYPTO VARIABLES ARE ASSIGNED IN PAIRS (PAIRS ARE
CRYPTO VARIABLES WITH THE SAME VARIABLE CODES [CVLLs--CRYPTO
VARIABLE LOGICAL LABELS] FOR TWO CONSECUTIVE CRYPTO
PERIODS), THE TWO VARIABLES OF EACH PAIR MUST BE ASSIGNED TO
PAIRED SDU LOCATIONS (0/1, 1/2, 2/3, 3/4, 4/5, 5/6, 6/7, AND
7/0) BY INITIALIZING EACH PAIR OF CRYPTO CROSS REFERENCE
TABLE LOCATIONS WITH IDENTICAL VARIABLE CODES AND THE
APPROPRIATE CPD FOR EACH CRYPTO PERIOD.

30.4.2.16 Transmit Delay Constants. (Block 1, Word 25)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 25	TRANSMIT ANTENNA B DELAY								TRANSMIT ANTENNA A DELAY							

The bit designation shall be as follows:

BIT   DESIGNATION

0-7   TRANSMIT ANTENNA A DELAY
               LSB: 12.5 NANOSECONDS
               RANGE: 0 TO 3187.5 NANOSECONDS

8-15   TRANSMIT ANTENNA B DELAY
               LSB: 12.5 NANOSECONDS
               RANGE: 0 TO 3187.5 NANOSECONDS

               FOR NAVY SHIPBOARD:
               For the Navy Shipboard unique Transmit Antenna Cable Delay
               Value word, see Appendix VIII.

               FOR NAVY AIRBORNE:
               For the Navy Airborne unique Transmit Antenna Cable Delay
               Value word, see Appendix VIII.

INITIALIZATION BLOCK 1

30.4.2.17 <u>Digital Voice Word</u>. (Block 1, Word 26)

	MSB														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 26			CMV2		C V 2	RV2					CMV1		C V 1	RV1		V C H A N

The bit designation shall be as follows:

BIT	DESIGNATION

0   VOICE CHANNELIZATION (VCHAN)
            LOGIC 1 = VOICE A - PORT 2, VOICE B - PORT 1
            LOGIC 0 = VOICE A - PORT 1, VOICE B - PORT 2

1-2   VOICE PORT 1 RATE (RV 1)

            BIT   2 • 1
                  •••••••
                  0 • 0 16 KILOBITS/SEC
                  0 • 1 NOT USED
                  1 • 0 2.4 KILOBITS/SEC
                  1 • 1 NOT USED

3   PORT 1 CODED VOICE (CV1)
            LOGIC 0 = UNCODED VOICE
            LOGIC 1 = CODED VOICE (FOR 2.4 KILOBITS/SEC ONLY)

4-5   PORT 1 2.4 KBPS CODING METHOD (CMV1)

            BIT   5 • 4
                  •••••••
                  0 • 0 LPC-12 (MITLL)
                  0 • 1 LPC-10 (ANDVT)
                  1 • 0 LPC-10 (MITLL)
                  1 • 1 NOT USED

6-8   SPARE

9-10   VOICE PORT 2 RATE (RV2)

            BIT   2 • 1
                  •••••••
                  0 • 0 16 KILOBITS/SEC
                  0 • 1 NOT USED
                  1 • 0 2.4 KILOBITS/SEC
                  1 • 1 NOT USED

INITIALIZATION BLOCK 1

BIT   DESIGNATION

11   PORT 2 CODED VOICE (CV2)
           LOGIC 0 = UNCODED VOICE
           LOGIC 1 = CODED VOICE (FOR 2.4 KILOBITS/SEC ONLY)

12-13   PORT 2 2.4 KBPS CODING METHOD (CMV2)

           BIT   13 • 12
                 • • • • • • • • •
                   0 • 0 LPC-12 (MITLL)
                   0 • 1 LPC-10 (ANDVT)
                   1 • 0 LPC-10 (MITLL)
                   1 • 1 NOT USED

14-15   SPARE

           FOR NAVY SHIPBOARD:
           For the Navy Shipboard unique Digital Voice Word, see
           Appendix VIII.

           FOR NAVY AIRBORNE:
           For the Navy Airborne unique Digital Voice Word, see
           Appendix VIII.

                                    INITIALIZATION BLOCK 1

30.4.2.18 ETR Cable Delay. (Block 1, Word 27)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 27									ETR CABLE DELAY							

MSB (bit 15), LSB (bit 0)

The bit designation shall be as follows:

BIT	DESIGNATION
0-7	EXTERNAL TIME REFERENCE (ETR) CABLE DELAY. LSB: 12.5 NANOSECONDS RANGE: 0 TO 3187.5 NANOSECONDS
8-15	NOT USED

INITIALIZATION BLOCK 1

30.4.2.19 <u>Cable Delay Antenna A</u>.   (Block 1, Word 28)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 28	R/T TO DDP CABLE DELAY								ANTENNA A CABLE DELAY							

The bit designation shall be as follows:

<u>BIT</u>   <u>DESIGNATION</u>

0-7   ANTENNA A CABLE DELAY.
            (TRUNCATED TO 12.5 NANOSECONDS)
            LSB: 12.5 NANOSECONDS
            RANGE: 0 TO 3187.5 NANOSECONDS

8-15   CABLE DELAY R/T TO DDP
            (TRUNCATED TO 12.5 NANOSECONDS)
            LSB: 12.5 NANOSECONDS
            RANGE: 0 TO 3187.5 NANOSECONDS

            FOR NAVY SHIPBOARD:
            For the Navy Shipboard unique R/T DDP and Antenna A Cable
            Delays word, see Appendix VIII.

            FOR NAVY AIRBORNE:
            For the Navy Airborne unique R/T DDP and Antenna A Cable
            Delays word, see Appendix VIII.

INITIALIZATION BLOCK 1

30.4.2.20 <u>Cable Delay Antenna B</u>. (Block 1, Word 29)

Same format as Cable Delay Antenna A except bits 8 through 15 are not used.

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique Antenna B Cable Delay word, see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique Antenna B Cable Delay word, see Appendix VIII.

30.4.2.21 <u>Receive Cable Delay Constant</u>. (Block 1, Word 30)

	MSB														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 30	DELAY CONSTANT															

The bit designation shall be as follows:

<u>BIT</u>   <u>DESIGNATION</u>

0-15   DELAY CONSTANT
           LSB: 12.5 NANOSECONDS
           NEGATIVE QUANTITIES SHALL BE IN TWO'S COMPLEMENT NOTATION.

NOTE: BLOCK 1, WORD 30 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII) OR BY NAVY AIRBORNE(Appendix IX).

INITIALIZATION BLOCK 1

30.4.2.22 <u>Transmit Cable Delay Constant</u>. (Block 1, Word 31)

	MSB 15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	LSB 0
wd 31								DELAY CONSTANT								

The bit designation shall be as follows:

BIT	DESIGNATION

0-15   DELAY CONSTANT
              LSB: 12.5 NANOSECONDS
              THE TRANSMIT CABLE DELAY CONSTANT PROVIDES A VARIABLE
              CABLE DELAY FOR DUAL ANTENNA TRANSMIT DEPENDING ON THE
              PLATFORM CONFIGURATION.

   NOTE: BLOCK 1, WORD 30 IS NOT USED BY NAVY SHIPBOARD (Appendix
          VIII) OR BY NAVY AIRBORNE(Appendix IX).

30.4.2.23 <u>Loopback Delay Constants</u>. (Block 1, Word 32)

	MSB 15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	LSB 0
wd 32	TOTAL LOOPBACK DELAY B BEYOND R/T								TOTAL LOOPBACK DELAY A BEYOND R/T							

The bit designation shall be as follows:

BIT	DESIGNATION

0-7   TOTAL LOOPBACK DELAY A BEYOND R/T
              LSB: 12.5 NANOSECONDS
              RANGE: 0 TO 3187.5 NANOSECONDS

8-15   TOTAL LOOPBACK DELAY B BEYOND R/T
              LSB: 12.5 NANOSECONDS
              RANGE: 0 TO 3187.5 NANOSECONDS

   NOTE: THE NICP WILL USE THESE FIELDS ONLY IF THE RF LOOPBACK PATH
            IS SET TO 1 (BLOCK 1, WORD 7, BIT 9) (LOOPBACK DELAYS BEYOND
            THE R/T)

            FOR NAVY SHIPBOARD:
            For the Navy Shipboard unique Antenna B Cable Delay
            word, see Appendix VIII.

            FOR NAVY AIRBORNE:
            For the Navy Airborne unique Antenna B Cable Delay
            word, see Appendix VIII.

INITIALIZATION BLOCK 1

30.4.3 Initialization Data Block 2.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 2 (SEE 30.4.1.2)															
wd 3	SECONDARY TN WORD 1															
wd 4	SECONDARY TN WORD 2															
wd 5	SECONDARY TN WORD 3															
wd 6	SECONDARY TN WORD 4															
wd 7	SECONDARY TN WORD 5															
wd 8	SECONDARY TN WORD 6															
wd 9	SECONDARY TN WORD 7															
wd 10	SECONDARY TN WORD 8															
wd 11	SECONDARY TN WORD 9															
wd 12	SECONDARY TN WORD 10															
wd 13	SECONDARY TN WORD 11															
wd 14	SECONDARY TN WORD 12															
wd 15	SECONDARY TN WORD 13															
wd 16	SECONDARY TN WORD 14															
wd 17	SECONDARY TN WORD 15															
wd 18	SECONDARY TN WORD 16															
wd 19	REPROMULGATION WORD															
wd 20	PLATFORM INDICATORS															
wd 21	PPLI PLATFORM/PPLI PLATFORM ACTIVITY															
wd 22	MISSION CORRELATOR WORD 1															
wd 23	MISSION CORRELATOR WORD 2															
wd 24	MISSION CORRELATOR WORD 3															
wd 25	MISSION CORRELATOR WORD 4															
wd 26	RECORDER CONTROL WORD 1															
wd 27	RECORDER CONTROL WORD 2															
wd 28	RECORDER CONTROL WORD 3															
wd 29	RECORDER CONTROL WORD 4															
wd 30	NOT USED															
wd 31	TIME SLOT INHIBIT															
wd 32	RECEIVE DELAY CONSTANTS															

30.4.3.1 Secondary TN (16 Words) (Block 2, Words 3 through 18)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 3 - 18	S S T N	SECONDARY TN														

The bit designation shall be as follows:

BIT   DESIGNATION

0-14   SECONDARY TRACK NUMBER
           RANGE: 00000 - 77777 (OCTAL)
           00000 (OCTAL) = NO STATEMENT - DEFAULT VALUE

           FOR NAVY AIRBORNE:
           For the Navy Airborne unique Secondary TN or Flight
           Member Track Number word, see Appendix VIII.

15   SPECIAL SOURCE TN (SSTN) F-15 ONLY
           LOGIC 1 = SPECIAL SOURCE TN

           FOR NAVY SHIPBOARD:
           For the Navy Shipboard unique Track Number Indicator
           word, see Appendix VIII.

           FOR NAVY AIRBORNE:
           For the Navy Airborne unique Track Number Indicator
           word, see Appendix VIII.

INITIALIZATION BLOCK 2

30.4.3.2 _Repromulgation Word_. (Block 2, Word 19)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 19							C S M R I		R E S E R V E D	T O M	C O N T R O L		COUNTER			

The bit designation shall be as follows:

BIT   DESIGNATION

0-3   REPROMULGATION COUNT OR HOP COUNT (RHC).
                THE NUMBER OF RETRANSMISSIONS (HOPS) TO BE REQUESTED
                FOR REPROMULGATION MESSAGES IF COUNT NOT IN RELAY
                REQUEST FROM HOST.

                1 - 15 = ASSIGNED NUMBER OF HOPS
                0 IS NOT USED

                FOR NAVY SHIPBOARD:
                For the Navy Shipboard unique Repromulgation Hop Count
                field, see Appendix VIII.

                FOR NAVY AIRBORNE:
                For the Navy Airborne unique Repromulgation Hop Count
                field, see Appendix VIII.

4-5   REPROMULGATION CONTROL
                LEVEL OF TERMINAL PARTICIPATION IN REPROMULGATION
                COMMUNITY

                BIT   5 • 4
                      • • • • • • •
                      0 • 0   INACTIVE (DEFAULT)
                      0 • 1   RELAY
                      1 • 0   RESERVED FOR ORIGINATE ONLY
                      1 • 1   RELAY AND ORIGINATE

                FOR NAVY SHIPBOARD:
                For the Navy Shipboard unique Repromulgation Hop Count
                field, see Appendix VIII.

                FOR NAVY AIRBORNE:
                For the Navy Airborne unique Repromulgation Hop Count
                field, see Appendix VIII.

                                    INITIALIZATION BLOCK 2

BIT	DESIGNATION

6   REPROMULGATION SOURCE TRANSMIT OPPORTUNITY MODE (TOM)
        LOGIC 1 = ENHANCE MODE - RESERVE 1 OPPORTUNITY
        LOGIC 0 = NORMAL MODE - RESERVE 2 OPPORTUNITIES

        FOR NAVY SHIPBOARD:
        For the Navy Shipboard unique value of this bit, see
        Appendix VIII.

        FOR NAVY AIRBORNE:
        For the Navy Airborne unique value of this bit, see Appendix
        VIII.

7   RESERVED

8   NOT USED

9   CONNECTIVITY STATUS MESSAGE REPROMULGATION INSTRUCTION
        (CSMRI)
        LOGIC 1 = REPROMULGATE CONNECTIVITY STATUS MESSAGE ON NPG 28
        IF REPROMULGATION ALLOWS
        LOGIC 0 = DO NOT REPROMULGATE ANY TERMINAL GENERATED
        CONNECTIVITY STATUS MESSAGE ON NPG 28.

        FOR NAVY SHIPBOARD:
        For the Navy Shipboard unique value of this bit, see
        Appendix VIII.

        FOR NAVY AIRBORNE:
        For the Navy Airborne unique value of this bit, see Appendix
        VIII.

10-15   NOT USED

INITIALIZATION BLOCK 2

30.4.3.3 <u>Platform Indicators Word</u>. (Block 2, Word 20)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 20								PLATFORM INDICATORS								

MSB (above bit 15), LSB (above bit 0)

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique values of this word, see Appendix VIII.

The bit designation shall be as follows:

BIT	DESIGNATION
0	EXERCISE INDICATOR
1	DISPLACED POSITION INDICATOR
2	FORCE TELL INDICATOR
3	EMERGENCY INDICATOR
4	COMMAND AND CONTROL INDICATOR
5	SIMULATION INDICATOR (SET TO ZERO FOR OPERATIONAL USE)
6	AIRBORNE INDICATOR
7	FLIGHT LEADER INDICATOR
8	BAILOUT INDICATOR
9-15	NOT USED

NOTE: LOGIC 0 = INDICATOR OFF
       LOGIC 1 = INDICATOR ENABLE

INITIALIZATION BLOCK 2

30.4.3.4 Platform Activity Word. (Block 2, Word 21)

	MSB														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 21				PPLI PLATFORM ACTIVITY							PPLI PLATFORM					

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique values of this word, see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique values of this word, see Appendix VIII.

The bit designation shall be as follows:

BIT   DESIGNATION

0-5   PPLI PLATFORM
            DEFINED IN JINTACCS JTIDS TIDP VOLUME II, PART 2, DFI
            1797 FOR PPLI CORRESPONDING TO PLATFORM TYPE
            (INITIALIZATION BLOCK 1, WORD 7). ALSO SEE Y256C052.

6-12   PPLI PLATFORM ACTIVITY
            DEFINED IN JINTACCS JTIDS TIDP VOLUME II, PART 2, DFI
            1798 FOR PPLI CORRESPONDING TO PLATFORM TYPE
            (INITIALIZATION BLOCK 1, WORD 7). ALSO SEE Y256C052.

13-15   NOT USED

INITIALIZATION BLOCK 2

30.4.3.5 <u>Mission Correlators Words</u> (4 Words). (Block 2, Words 22 through 25)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 22 - 25	MISSION CORRELATOR (N + 1)								MISSION CORRELATOR (N)							

The bit designation shall be as follows:

BIT	DESIGNATION
0-7	MISSION CORRELATOR AS DEFINED IN VOLUME II OF JINTACCS JTIDS TIDP DEFAULT VALUE = 0 (NO STATEMENT)
8-15	MISSION CORRELATOR AS DEFINED IN VOLUME II OF JINTACCS JTIDS TIDP DEFAULT VALUE = 0 (NO STATEMENT)

FOR F-15 APPLICATIONS:
The Terminal will set Mission Correlator #1 to the value of the Fighter Net when the Fighter Net is in effect (see Initialization Block 16, word 28).

INITIALIZATION BLOCK 2

30.4.3.6 Recorder Control Words (4 Words) (Block 2, Words 26 through 29).

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 26																
wd 27																
wd 28																
wd 29																

MSB (above bit 15) — LSB (above bit 0)

RECORDING BLOCK CONTROL

LOGIC 1 = BLOCK RECORDING OFF

LOGIC 0 = BLOCK RECORDING ON

NOTE: FOR WORD 27, BITS 5, 8, 9 AND 11 AND WORDS 28 AND 29 SEE NAVY SHIPBOARD AND NAVY AIRBORNE SPECIFICS IN APPENDIX VIII.

The bit designation shall be as follows:

WORD 26

BIT	DESIGNATION
0	MESSAGE TO TRANSMIT DTB (DTB)
1	RECEIVED MESSAGE/LOOPBACK TRANSMISSION DTB

NOTE: FOR THE MESSAGES SPECIFIED BY THE TSRD MESSAGE FILTER WORDS – SEE 30.4.8.1, 30.4.9.1)

2	NAVIGATION DATA FROM SICP DTB
3	START-UP NAVIGATION DATA DTB
4	NAVIGATION DATA FROM NICP DTB
5	BI-DIRECTIONAL INITIALIZATION DATA DTB
6	NICP INITIALIZATION DATA STATUS RESPONSE DTB
7	NPG MAPPING STATUS DTB

INITIALIZATION BLOCK 2

BIT	DESIGNATION
8	REAL TIME SLOT ASSIGNMENT SEQUENCE DTB
9	MESSAGE STATUS DTB
10	NICP 12-SECOND STATUS REPORT DTB
11	SICP STATUS REPORT DTB
12-13	NOT USED
14	SYNCHRONIZATION FILTER DATA DTB
15	REL NAV KALMAN FILTER STATE VECTOR & COVARIANCE DIAGONAL DTB

WORD 27

BIT	DESIGNATION
0	REL NAV KALMAN FILTER OBSERVATION DATA DTB
1	SPARE
2	SICP TERMINAL STATUS
3	PANEL DATA
4	MUX DATA (FOR THE SUB-ADDRESSES SPECIFIED BY THE MUX RECORDING FILTER - SEE 30.4.7.2)
5	SICP REGISTERS
6	SICP MEMORY BLOCKS (AS SPECIFIED BY RECORDER BLOCK WORDS - SEE 30.4.7.4)
7	NOT USED
8	PPLI NOMINAL RECURRENCE RATE DTB (ARMY ONLY)
9	TACAN DATA (F-15 ONLY)
10	CONTROL DISCRETE DATA (F-15 ONLY)
11-15	NOT USED

INITIALIZATION BLOCK 2

WORD 28   NOT USED

WORD 29

    BIT   DESIGNATION

    0   IJMS 12-SECOND MESSAGE STATUS DTB

    1   TADIL J TO IJMS TRANSLATED MESSAGES

    2   ABORTED TRANSLATIONS

    3   IJMS VDL FOR TRANSMIT DTB

    4   IJMS TO TADIL J TRANSLATED MESSAGES

    5-15   NOT USED

INITIALIZATION BLOCK 2

30.4.3.7 Block 2, Word 30. Not used.

30.4.3.8 Net Entry Time Slot Inhibit. (Block 2, Word 31)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 31											CONT	PPLIB	PPLIA	RTT	VB	VA

MSB ... LSB

INDICATES WHICH SLOT BLOCKS, DEFINED IN RECEIVED INITIAL ENTRY MESSAGES, ARE TO BE USED UPON PASSING ALL CURRENT VALIDITY CHECKS.

The bit designation shall be as follows:

BIT   DESIGNATION

0   VOICE A INHIBIT (VA)
           LOGIC 1 = DO NOT USE VOICE A TIME SLOT

1   VOICE B INHIBIT (VB)
           LOGIC 1 = DO NOT USE VOICE B TIME SLOT

2   RTT INHIBIT (RTT)
           LOGIC 1 = DO NOT USE RTT TIME SLOT

3   PPLI A INHIBIT (PPLI A)
           LOGIC 1 = DO NOT USE PPLI A TIME SLOT

4   PPLI B INHIBIT (PPLI B)
           LOGIC 1 = DO NOT USE PPLI B TIME SLOT

5   CONTROL INHIBIT (CONT)
           LOGIC 1 = DO NOT USE CONTROL TIME SLOT

6-15   NOT USED

INITIALIZATION BLOCK 2

30.4.3.9 <u>Receive Antenna Cable Delay</u>. (Block 2, Word 32)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 32	RECEIVE ANTENNA B CABLE DELAY VALUE								RECEIVE ANTENNA A CABLE DELAY VALUE							

MSB (above bit 15) LSB (above bit 0)

The bit designation shall be as follows:

<u>BIT</u>   <u>DESIGNATION</u>

0-7   RECEIVE ANTENNA A CABLE DELAY VALUE (BEYOND R/T)
             LSB: 12.5 NANOSECONDS
             RANGE: 0 TO 3187.5 NANOSECONDS

8-15   RECEIVE ANTENNA B CABLE DELAY (BEYOND R/T)
             LSB: 12.5 NANOSECONDS
             RANGE: 0 TO 3187.5 NANOSECONDS

INITIALIZATION BLOCK 2

30.4.4   Initialization Data Blocks 3 Through 15.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 3 (SEE 30.4.1.2)															
wd 3	SLOT BLOCK NO. 1 1st WORD															
wd 4	SLOT BLOCK NO. 1 2nd WORD															
wd 5	SLOT BLOCK NO. 1 3rd WORD															
wd 6	SLOT BLOCK NO. 1 4th WORD															
wd 7	SLOT BLOCK NO. 1 5th WORD															
wd 8	SLOT BLOCK NO. 1 6th WORD															
wd 9	SLOT BLOCK NO. 2 1st WORD															
wd 10	SLOT BLOCK NO. 2 2nd WORD															
wd 11	SLOT BLOCK NO. 2 3rd WORD															
wd 12	SLOT BLOCK NO. 2 4th WORD															
wd 13	SLOT BLOCK NO. 2 5th WORD															
wd 14	SLOT BLOCK NO. 2 6th WORD															
wd 15	SLOT BLOCK NO. 3 1st WORD															
wd 16	SLOT BLOCK NO. 3 2nd WORD															
wd 17	SLOT BLOCK NO. 3 3rd WORD															
wd 18	SLOT BLOCK NO. 3 4th WORD															
wd 19	SLOT BLOCK NO. 3 5th WORD															
wd 20	SLOT BLOCK NO. 3 6th WORD															
wd 21	SLOT BLOCK NO. 4 1st WORD															
wd 22	SLOT BLOCK NO. 4 2nd WORD															
wd 23	SLOT BLOCK NO. 4 3rd WORD															
wd 24	SLOT BLOCK NO. 4 4th WORD															
wd 25	SLOT BLOCK NO. 4 5th WORD															
wd 26	SLOT BLOCK NO. 4 6th WORD															
wd 27	SLOT BLOCK NO. 5 1st WORD															
wd 28	SLOT BLOCK NO. 5 2nd WORD															
wd 29	SLOT BLOCK NO. 5 3rd WORD															
wd 30	SLOT BLOCK NO. 5 4th WORD															
wd 31	SLOT BLOCK NO. 5 5th WORD															
wd 32	SLOT BLOCK NO. 5 6th WORD															

30.4.4.1 <u>Time Slot Assignment Block</u> (6 Words/Block)

NOTE: WHEN ANY DATA CHANGE IS MADE TO A TIME SLOT ASSIGNMENT BLOCK,
       ALL SIX WORDS MUST BE SUBMITTED.

	MSB 15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	LSB 0
wd 1		R T S	CM		RR						NET					SET
wd 2	T / R						INDEX SLOT									
wd 3	Q				ACCESS DESCRIPTION											
wd 4		R D S		RELAY NET					RELAY DELAY, RECEIVE ----------------------- - END-TO-END RELAY DELAY						
wd 5	ORIG XMIT NET							NET PARTICIPATION GROUP								
wd 6		TSEC							MSEC							

The bit designation shall be as follows:

<u>WORD 1</u>

<u>BIT</u>   <u>DESIGNATION</u>

0-1   SET

             BIT 1 • 0
                •••••••
                0 • 0   NO STATEMENT (DELETE BLOCK) -
                  •   DEFAULT
                0 • 1   SET A
                1 • 0   SET B
                1 • 1   SET C

2-8   NET NUMBER (NET) - DEFINES THE NET NUMBER TO BE USED FOR
             THIS BLOCK ASSIGNMENT
             0-126 = ASSIGNED NET
               127 = ILLEGAL EXCEPT FOR VOICE A, VOICE B OR
                     CONTROL NPGs.
             IF NPG (IN WORD 5) = 9 (CONTROL), 12 (VOICE A) OR 13
             (VOICE B), 127 MEANS TO USE THE HOST-SUPPLIED NET (SEE
             30.4.17.2, 30.4.17.3).

             NOTE: IF NPG (IN WORD 5) = 3 (RTT-B), THEN THIS
                    FIELD IS A "DON'T CARE".
                              INITIALIZATION BLOCKS 3-15

BIT	DESIGNATION
9-12	RECURRENCE RATE (RR) 2 - 15 = ASSIGNED RECURRENCE RATE VALUES 0, 1 ARE ILLEGAL.
13	CRYPTOGRAPHIC MODE (CM) LOGIC 1 = PARTITIONED VARIABLE MODE LOGIC 0 = COMMON VARIABLE MODE
14	RELAY/TIME SLOT INDICATOR (RTS) SET TO LOGIC 0 = TIME SLOT ASSIGNMENT BLOCK (OTHERWISE, 30.4.4.2, RELAY SLOT ASSIGNMENT BLOCK, APPLIES)
15	RESERVED FOR NICP USE (DO NOT USE)

WORD 2

BIT	DESIGNATION
0-14	INDEX SLOT NUMBER 0 - 32767 = ASSIGNED SLOT NUMBER
15	TRANSMIT/RECEIVE SLOT (T/R) LOGIC 1 = TRANSMIT SLOT ASSIGNMENT LOGIC 0 = RECEIVE SLOT ASSIGNMENT

WORD 3

BIT	DESIGNATION
0-5	RESERVED FOR SICP/NICP USE (DO NOT USE)
6-11	ACCESS DESCRIPTION

```
0        CONTENTION ACCESS    1 PER 48  SECONDS
1        CONTENTION ACCESS    2 PER 48  SECONDS
2        CONTENTION ACCESS    3 PER 48  SECONDS
3        CONTENTION ACCESS    2 PER 24  SECONDS
4        CONTENTION ACCESS    3 PER 24  SECONDS
5        CONTENTION ACCESS    2 PER 12  SECONDS
6        CONTENTION ACCESS    3 PER 12  SECONDS
7        CONTENTION ACCESS    4 PER 12  SECONDS
8        CONTENTION ACCESS    6 PER 12  SECONDS
9        CONTENTION ACCESS    8 PER 12  SECONDS
10       CONTENTION ACCESS   12 PER 12  SECONDS
11       CONTENTION ACCESS   16 PER 12  SECONDS
12       CONTENTION ACCESS   20 PER 12  SECONDS
13       CONTENTION ACCESS   26 PER 12  SECONDS
14       CONTENTION ACCESS   32 PER 12  SECONDS
15       CONTENTION ACCESS   64 PER 12  SECONDS
```

INITIALIZATION BLOCKS 3-15

BIT   DESIGNATION

ACCESS DESCRIPTION (continued)

    16   DEDICATED ACCESS MODE
    17-63   NOT DEFINED

NOTE: RECEIVE ASSIGNMENTS MUST BE DEDICATED ACCESS

       FOR NAVY SHIPBOARD:
       For the Navy Shipboard unique Access Description field,
       see Appendix VIII.

       FOR NAVY AIRBORNE:
       For the Navy Airborne unique Access Description field, see
       Appendix VIII.

    12-14   NOT USED

       FOR NAVY SHIPBOARD:
       For the Navy Shipboard unique values of these bits, see
       Appendix VIII.

       FOR NAVY AIRBORNE:
       For the Navy Airborne unique values of these bits, see
       Appendix VIII.

    15   QUIESCENT BIT (Q). RESERVED FOR NICP/SICP USE (DO
   NOT USE)

NOTE: FOR NPG 9, 12 AND 13 AND T/R=1, THE SICP WILL SET THE QUIESCENT
       BIT TO 1 DURING INITIALIZATION.

       FOR NAVY SHIPBOARD:
       For the Navy Shipboard unique value of this bit, see
       Appendix VIII.

       FOR NAVY AIRBORNE:
       For the Navy Airborne unique value of this bit, see
       Appendix VIII.

INITIALIZATION BLOCKS 3-15

WORD 4

BIT   DESIGNATION

0-6   RELAY DELAY, RECEIVE OR END-TO-END RELAY DELAY. WHEN RELAY
           DELAY SWITCH (RDS) = 0, THIS FIELD CONTAINS THE RELAY
           DELAY, RECEIVE
                0 = NO STATEMENT
                6-31 = ASSIGNED NUMBER OF DELAY SLOTS
                1-4, 32-127 = ILLEGAL VALUES

   NOTE: 5 IS USED FOR TEST PURPOSES ONLY

           WHEN RDS=1, THIS FIELD CONTAINS THE END-TO-END RELAY DELAY
                0-4 = ILLEGAL VALUES
                5-127 = ASSIGNED NUMBER OF DELAY SLOTS

   NOTE: 5 IS USED FOR TEST PURPOSES ONLY

7-13   RELAY NET
                0-127 = LEGAL VALUES

           FOR NAVY SHIPBOARD:
           For the Navy Shipboard unique Repromulgation Hop Count
           field, see Appendix VIII.

           FOR NAVY AIRBORNE:
           For the Navy Airborne unique Repromulgation Hop Count
           field, see Appendix VIII.

   NOTE: VALUE OF 127 IS VALID ONLY FOR VOICE A, VOICE B, OR CONTROL
          NPGS.

14   RELAY DELAY SWITCH (RDS)
           LOGIC 1 = BITS 0-6 OF THIS WORD CONTAIN THE END-TO-END
           RELAY DELAY FIELD
           LOGIC 0 = BITS 0-6 OF THIS WORD CONTAIN THE RELAY DELAY,
           RECEIVE FIELD

           FOR NAVY SHIPBOARD:
           For the Navy Shipboard unique Repromulgation Hop Count
           field, see Appendix VIII.

           FOR NAVY AIRBORNE:
           For the Navy Airborne unique Repromulgation Hop Count
           field, see Appendix VIII.

15   RESERVED FOR NICP USE (DO NOT USE)

INITIALIZATION BLOCKS 3-15

WORD 5

BIT	DESIGNATION
0-8	NET PARTICIPATION GROUP NUMBER (NPG)

    0 = NO STATEMENT
1-511 = ASSIGNED NPG

NOTES: 1. A CHANGE TO A SLOT ASSIGNMENT BLOCK WHOSE NPG IS 9, 12 OR 13 MAY RESULT IN NON-OPERATIONAL VOICE/CONTROL CHANNEL STATUS. TO LEARN THAT STATUS, IT IS NECESSARY FOR THE HOST TO REQUEST (SEE 70.8.1.6.2.1) STATUS BLOCK 3 (SEE 60.7).

           2. IF NPG=9, THE TERMINAL WILL PROCESS TIME SLOT ASSIGNMENT BLOCKS FOR AT MOST THREE DIFFERENT NETS (1ST WORD, BITS 2-8); FURTHERMORE, THE TOTAL NUMBER OF TIME SLOT ASSIGNMENT BLOCKS (TRANSMIT PLUS RECEIVE) ON EACH NET MUST BE AT MOST FIVE.

BIT	DESIGNATION
9-15	ORIGINAL XMIT NET

WHEN RDS = 0, THIS VARIABLE IS A "DON'T CARE"

WHEN RDS = 1, 0-126 = ASSIGNED NET

IF NPG = 9, 12, OR 13, THEN 127 MEANS "USE THE HOST-SUPPLIED NET NUMBER" (30.4.17.2 OR 30.4.17.3). OTHERWISE, 127 IS AN ILLEGAL VALUE.

WORD 6

BIT	DESIGNATION
0-6	MESSAGE SECURITY VARIABLE (MSEC)

WHEN CM = 1 (PARTITIONED VARIABLE MODE - SEE WORD 1) 1-127 = ASSIGNED MSEC. FOR NPGs 9, 12 AND 13, THE TERMINAL DOES NOT CHECK INPUT MSEC VARIABLES.

WHEN CM = 0 (COMMON MODE), MSEC = TSEC

BIT	DESIGNATION
7	NOT USED
8-14	TRANSMISSION SECURITY VARIABLE (TSEC)

1-127 = ASSIGNED TSEC
0 IS AN ILLEGAL VALUE

BIT	DESIGNATION
15	NOT USED

INITIALIZATION BLOCKS 3-15

30.4.4.2 Relay Slot Assignment Block (6 WORDS/BLOCK)

NOTE: WHEN ANY DATA CHANGE IS MADE TO THIS BLOCK, ALL SIX WORDS MUST
       BE SUBMITTED.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 1		R T S	CM	RR				NET NUMBER, RECEIVE							SET	
wd 2	C N R	INDEX SLOT														
wd 3	RELAY DELAY					RELAY FUNCTION			RELAY CONTROL						
wd 4		D N D	ORIGINAL XMIT NET (CM = 1)							END-TO-END DELAY (CM = 1)						
wd 5	NET NUMBER, TRANSMIT							NET PARTICIPATION GROUP							
wd 6		TSEC								MSEC						

The bit designation shall be as follows:

WORD 1

       BIT   DESIGNATION

       0-1   SET

                  BIT 1 • 0
                       •••••••
                       0 • 0   NO STATEMENT (DELETE BLOCK) -
                         •   DEFAULT
                       0 • 1   SET A
                       1 • 0   SET B
                       1 • 1   SET C

       2-8   NET NUMBER, RECEIVE - DEFINES THE RECEIVE NET NUMBER TO BE
                  USED FOR THIS BLOCK ASSIGNMENT
                  0-126 = ASSIGNED NET

                  IF THE NPG IS 9, 12, OR 13, THEN 127 MEANS "USE THE HOST-
                  SUPPLIED NET NUMBER" (30.4.17.2 OR 30.4.17.3). OTHERWISE,
                  127 IS AN ILLEGAL VALUE.

       9-12   RECURRENCE RATE (RR)
                  2 - 15 = ASSIGNED RR
                  VALUES 0, 1 ARE ILLEGAL. INITIALIZATION BLOCKS 3-15

BIT	DESIGNATION
13	CRYPTOGRAPHIC MODE (CM) LOGIC 1 = PARTITIONED VARIABLE MODE LOGIC 0 = COMMON VARIABLE MODE
14	RELAY/TIME SLOT INDICATOR (RTS) SET TO LOGIC 1 = RELAY SLOT ASSIGNMENT BLOCK (OTHERWISE, 30.4.4.1 APPLIES)
15	RESERVED FOR NICP USE (DO NOT USE)

WORD 2

BIT	DESIGNATION
0-14	INDEX SLOT NUMBER 0 - 32767 = ASSIGNED SLOT NUMBER
15	CRYPTO NET RELAY INDICATOR (CNR) LOGIC 1 = CRYPTO NET RELAY (VALID ONLY IF CM = 0) LOGIC 0 = NOT A CRYPTO NET RELAY

WORD 3

BIT	DESIGNATION
0-5	RESERVED FOR SICP/NICP USE (DO NOT USE)
6-7	RELAY CONTROL

```
BIT  7 • 6
     •••••••
     0 • 0    NOT USED
     0 • 1    SUSPENDED
     1 • 0    CONDITIONAL
     1 • 1    UNCONDITIONAL
```

NOTE: A SUSPENDED RELAY SLOT ASSIGNMENT BLOCK IS INACTIVE FOR BOTH
       RECEIVE AND TRANSMIT; THE TERMINAL WILL RECEIVE ON THE DEFAULT
       NET (30.4.2.13) USING THE DEFAULT CRYPTOVARIABLES (30.4.2.14)
       FOR SUSPENDED RELAY RECEIVE AND RELAY TRANSMIT SLOTS.
       CONDITIONAL AND UNCONDITIONAL REFER TO TRANSMIT OPERATION ONLY.
       RELAY INHIBIT (SEE 30.4.12.8) AFFECTS ONLY TRANSMISSION.

INITIALIZATION BLOCKS 3-15

BIT   DESIGNATION

8-10   RELAY FUNCTION

             BIT 10 • 9 • 8
                 •••••••••••
                  0 • 0 • 0   MAIN NET RELAY
                  0 • 0 • 1   VOICE NET RELAY
                  0 • 1 • 0   CONTROL NET RELAY
                  0 • 1 • 1   ZOOM RELAY
                  1 • 0 • 0   DIRECTED RELAY
                  1 • 0 • 1   MESSAGE DIRECTED = 0
                  1 • 1 • 0   MESSAGE DIRECTED = 1
                  1 • 1 • 1   PARTICIPATION GROUP RELAY

             FOR NAVY SHIPBOARD:
             For the Navy Shipboard unique Relay Function field, see
             Appendix VIII.

             FOR NAVY AIRBORNE:
             For the Navy Airborne unique Relay Function field, see
             Appendix VIII.

11-15   RELAY DELAY - THE NUMBER OF SLOTS BETWEEN RECEPTION AND
             TRANSMISSION
              0-4 = ILLEGAL VALUES
             5-31 = ASSIGNED NUMBER OF DELAY SLOTS

   NOTE: 5 IS USED FOR TEST PURPOSES ONLY. IF THE RELAY FUNCTION (BITS
          8-10) IS VOICE NET RELAY (1) AND 16 KB/S VOICE IS BEING USED,
          THEN THE ALLOWABLE DELAYS ARE:

          A. 5 AND 7-11 FOR P-2 VOICE,
          B. 5-11 AND 13-23 FOR P4 VOICE,
          C. STANDARD PACKED VOICE (16 KB/S) IS NOT RELAYED.

WORD 4

BIT   DESIGNATION

0-6   END-TO-END DELAY
             RELAY DELAY FOR RECEIVE OF PVM RELAY
             (VALID ONLY WHEN CM=1)
               0-4 = ILLEGAL VALUES
             5-127 = TOTAL DELAY TO RECEIVE SLOT
        NOTE: 5 IS USED FOR TEST PURPOSES ONLY.

7-13   ORIGINAL XMIT NET
             ORIGINAL XMIT NET FOR PVM RELAY
             (VALID ONLY WHEN CM=1 AND END-TO-END DELAY IS NON-ZERO)
             0 - 126 = ASSIGNED NET
             IF THE NPG IS 9, 12, OR 13 THEN 127 MEANS "USE THE HOST
             SUPPLIED NET NUMBER" (SEE 30.4.17.2 OR 30.4.17.3).
             OTHERWISE, 127 IS AN ILLEGAL VALUE.
                                INITIALIZATION BLOCKS 3-15

14   DO NOT ATTEMPT TO DECRYPT INDICATOR (DND)
            LOGIC 1 = DO NOT ATTEMPT TO DECRYPT MESSAGE (VALID ONLY
            WHEN CM=1)

15   RESERVED FOR NICP USE (DO NOT USE)

WORD 5

BIT   DESIGNATION

0-8   NET PARTICIPATION GROUP NUMBER (NPG)
             0 = NO STATEMENT
             THE NET PARTICIPATION GROUP FIELD ENTRY SHALL BE A
             FUNCTION OF THE RELAY FUNCTION SELECTED IN WORD 3 AS
             SHOWN:

RELAY FUNCTIONS	FUNCTION LOGIC STATE	NPG FIELD ENTRY
NPG	111	1-8, 10, 11, 14-511 (WITH 30, 31 FOR IJMS MESSAGES)
VOICE A	001	12
VOICE B	001	13
DIRECTED RELAY	100	APPLICABLE GROUP NUMBER (0-63)
ZOOM	011	NO NPG REQUIRED
CONTROL	010	9
MAIN NET OR MESSAGE DIRECTED	000 OR 101 OR 110	NO NPG REQUIRED

             FOR NAVY SHIPBOARD:
             For the Navy Shipboard unique Net Participation Group
             Number field, see Appendix VIII.

             FOR NAVY AIRBORNE:
             For the Navy Airborne unique Net Participation Group
             Number field, see Appendix VIII.

9-15   NET NUMBER, TRANSMIT - DEFINES THE TRANSMIT NET NUMBER TO
             BE USED FOR THIS BLOCK ASSIGNMENT.
             0-126 = ASSIGNED NET
             IF NPG IS 9, 12, OR 13, 127 MEANS "USE THE HOST-SUPPLIED
             NET NUMBER" (30.4.17.2 OR 30.4.17.3). OTHERWISE, 127 IS AN
             ILLEGAL VALUE.

                              INITIALIZATION BLOCKS 3-15

WORD 6

BIT   DESIGNATION

0-6   MESSAGE SECURITY VARIABLE (MSEC)
               0 = NO STATEMENT
           1-127 = ASSIGNED MSEC

           WHEN CM=0 AND CNR=1, MSEC=0 IS ILLEGAL

           WHEN CM=1, MSEC=0 ILLEGAL EXCEPT FOR VOICE A, VOICE B AND
           CONTROL RELAY FUNCTIONS.

           OTHERWISE, WHEN CM=0, MSEC MUST EQUAL TSEC.

NOTE: FOR BITS 0-6, MSEC SHOULD BE NON-ZERO WHEN DND=0 AND DOES NOT
        HAVE TO BE ZERO, WHEN DND=1.

           FOR NAVY SHIPBOARD:
           For the Navy Shipboard unique Message Security Variable
           field, see Appendix VIII.

           FOR NAVY AIRBORNE:
           For the Navy Airborne unique Message Security Variable
           field, see Appendix VIII.

7   NOT USED

8-14   TRANSMISSION SECURITY VARIABLE (TSEC)
               0 = ILLEGAL
           1-127 = ASSIGNED TSEC

15   NOT USED

INITIALIZATION BLOCKS 3-15

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 4 (SEE 30.4.1.2)															
wd 3	SLOT BLOCK NO. 6 1st WORD															
wd 4	SLOT BLOCK NO. 6 2nd WORD															
wd 5	SLOT BLOCK NO. 6 3rd WORD															
wd 6	SLOT BLOCK NO. 6 4th WORD															
wd 7	SLOT BLOCK NO. 6 5th WORD															
wd 8	SLOT BLOCK NO. 6 6th WORD															
wd 9	SLOT BLOCK NO. 7 1st WORD															
wd 10	SLOT BLOCK NO. 7 2nd WORD															
wd 11	SLOT BLOCK NO. 7 3rd WORD															
wd 12	SLOT BLOCK NO. 7 4th WORD															
wd 13	SLOT BLOCK NO. 7 5th WORD															
wd 14	SLOT BLOCK NO. 7 6th WORD															
wd 15	SLOT BLOCK NO. 8 1st WORD															
wd 16	SLOT BLOCK NO. 8 2nd WORD															
wd 17	SLOT BLOCK NO. 8 3rd WORD															
wd 18	SLOT BLOCK NO. 8 4th WORD															
wd 19	SLOT BLOCK NO. 8 5th WORD															
wd 20	SLOT BLOCK NO. 8 6th WORD															
wd 21	SLOT BLOCK NO. 9 1st WORD															
wd 22	SLOT BLOCK NO. 9 2nd WORD															
wd 23	SLOT BLOCK NO. 9 3rd WORD															
wd 24	SLOT BLOCK NO. 9 4th WORD															
wd 25	SLOT BLOCK NO. 9 5th WORD															
wd 26	SLOT BLOCK NO. 9 6th WORD															
wd 27	SLOT BLOCK NO. 10 1st WORD															
wd 28	SLOT BLOCK NO. 10 2nd WORD															
wd 29	SLOT BLOCK NO. 10 3rd WORD															
wd 30	SLOT BLOCK NO. 10 4th WORD															
wd 31	SLOT BLOCK NO. 10 5th WORD															
wd 32	SLOT BLOCK NO. 10 6th WORD															

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 5 (SEE 30.4.1.2)															
wd 3	SLOT BLOCK NO. 11 1st WORD															
wd 4	SLOT BLOCK NO. 11 2nd WORD															
wd 5	SLOT BLOCK NO. 11 3rd WORD															
wd 6	SLOT BLOCK NO. 11 4th WORD															
wd 7	SLOT BLOCK NO. 11 5th WORD															
wd 8	SLOT BLOCK NO. 11 6th WORD															
wd 9	SLOT BLOCK NO. 12 1st WORD															
wd 10	SLOT BLOCK NO. 12 2nd WORD															
wd 11	SLOT BLOCK NO. 12 3rd WORD															
wd 12	SLOT BLOCK NO. 12 4th WORD															
wd 13	SLOT BLOCK NO. 12 5th WORD															
wd 14	SLOT BLOCK NO. 12 6th WORD															
wd 15	SLOT BLOCK NO. 13 1st WORD															
wd 16	SLOT BLOCK NO. 13 2nd WORD															
wd 17	SLOT BLOCK NO. 13 3rd WORD															
wd 18	SLOT BLOCK NO. 13 4th WORD															
wd 19	SLOT BLOCK NO. 13 5th WORD															
wd 20	SLOT BLOCK NO. 13 6th WORD															
wd 21	SLOT BLOCK NO. 14 1st WORD															
wd 22	SLOT BLOCK NO. 14 2nd WORD															
wd 23	SLOT BLOCK NO. 14 3rd WORD															
wd 24	SLOT BLOCK NO. 14 4th WORD															
wd 25	SLOT BLOCK NO. 14 5th WORD															
wd 26	SLOT BLOCK NO. 14 6th WORD															
wd 27	SLOT BLOCK NO. 15 1st WORD															
wd 28	SLOT BLOCK NO. 15 2nd WORD															
wd 29	SLOT BLOCK NO. 15 3rd WORD															
wd 30	SLOT BLOCK NO. 15 4th WORD															
wd 31	SLOT BLOCK NO. 15 5th WORD															
wd 32	SLOT BLOCK NO. 15 6th WORD															

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 6 (SEE 30.4.1.2)															
wd 3	SLOT BLOCK NO. 16 1st WORD															
wd 4	SLOT BLOCK NO. 16 2nd WORD															
wd 5	SLOT BLOCK NO. 16 3rd WORD															
wd 6	SLOT BLOCK NO. 16 4th WORD															
wd 7	SLOT BLOCK NO. 16 5th WORD															
wd 8	SLOT BLOCK NO. 16 6th WORD															
wd 9	SLOT BLOCK NO. 17 1st WORD															
wd 10	SLOT BLOCK NO. 17 2nd WORD															
wd 11	SLOT BLOCK NO. 17 3rd WORD															
wd 12	SLOT BLOCK NO. 17 4th WORD															
wd 13	SLOT BLOCK NO. 17 5th WORD															
wd 14	SLOT BLOCK NO. 17 6th WORD															
wd 15	SLOT BLOCK NO. 18 1st WORD															
wd 16	SLOT BLOCK NO. 18 2nd WORD															
wd 17	SLOT BLOCK NO. 18 3rd WORD															
wd 18	SLOT BLOCK NO. 18 4th WORD															
wd 19	SLOT BLOCK NO. 18 5th WORD															
wd 20	SLOT BLOCK NO. 18 6th WORD															
wd 21	SLOT BLOCK NO. 19 1st WORD															
wd 22	SLOT BLOCK NO. 19 2nd WORD															
wd 23	SLOT BLOCK NO. 19 3rd WORD															
wd 24	SLOT BLOCK NO. 19 4th WORD															
wd 25	SLOT BLOCK NO. 19 5th WORD															
wd 26	SLOT BLOCK NO. 19 6th WORD															
wd 27	SLOT BLOCK NO. 20 1st WORD															
wd 28	SLOT BLOCK NO. 20 2nd WORD															
wd 29	SLOT BLOCK NO. 20 3rd WORD															
wd 30	SLOT BLOCK NO. 20 4th WORD															
wd 31	SLOT BLOCK NO. 20 5th WORD															
wd 32	SLOT BLOCK NO. 20 6th WORD															

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 7 (SEE 30.4.1.2)															
wd 3	SLOT BLOCK NO. 21 1st WORD															
wd 4	SLOT BLOCK NO. 21 2nd WORD															
wd 5	SLOT BLOCK NO. 21 3rd WORD															
wd 6	SLOT BLOCK NO. 21 4th WORD															
wd 7	SLOT BLOCK NO. 21 5th WORD															
wd 8	SLOT BLOCK NO. 21 6th WORD															
wd 9	SLOT BLOCK NO. 22 1st WORD															
wd 10	SLOT BLOCK NO. 22 2nd WORD															
wd 11	SLOT BLOCK NO. 22 3rd WORD															
wd 12	SLOT BLOCK NO. 22 4th WORD															
wd 13	SLOT BLOCK NO. 22 5th WORD															
wd 14	SLOT BLOCK NO. 22 6th WORD															
wd 15	SLOT BLOCK NO. 23 1st WORD															
wd 16	SLOT BLOCK NO. 23 2nd WORD															
wd 17	SLOT BLOCK NO. 23 3rd WORD															
wd 18	SLOT BLOCK NO. 23 4th WORD															
wd 19	SLOT BLOCK NO. 23 5th WORD															
wd 20	SLOT BLOCK NO. 23 6th WORD															
wd 21	SLOT BLOCK NO. 24 1st WORD															
wd 22	SLOT BLOCK NO. 24 2nd WORD															
wd 23	SLOT BLOCK NO. 24 3rd WORD															
wd 24	SLOT BLOCK NO. 24 4th WORD															
wd 25	SLOT BLOCK NO. 24 5th WORD															
wd 26	SLOT BLOCK NO. 24 6th WORD															
wd 27	SLOT BLOCK NO. 25 1st WORD															
wd 28	SLOT BLOCK NO. 25 2nd WORD															
wd 29	SLOT BLOCK NO. 25 3rd WORD															
wd 30	SLOT BLOCK NO. 25 4th WORD															
wd 31	SLOT BLOCK NO. 25 5th WORD															
wd 32	SLOT BLOCK NO. 25 6th WORD															

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 8 (SEE 30.4.1.2)															
wd 3	SLOT BLOCK NO. 26 1st WORD															
wd 4	SLOT BLOCK NO. 26 2nd WORD															
wd 5	SLOT BLOCK NO. 26 3rd WORD															
wd 6	SLOT BLOCK NO. 26 4th WORD															
wd 7	SLOT BLOCK NO. 26 5th WORD															
wd 8	SLOT BLOCK NO. 26 6th WORD															
wd 9	SLOT BLOCK NO. 27 1st WORD															
wd 10	SLOT BLOCK NO. 27 2nd WORD															
wd 11	SLOT BLOCK NO. 27 3rd WORD															
wd 12	SLOT BLOCK NO. 27 4th WORD															
wd 13	SLOT BLOCK NO. 27 5th WORD															
wd 14	SLOT BLOCK NO. 27 6th WORD															
wd 15	SLOT BLOCK NO. 28 1st WORD															
wd 16	SLOT BLOCK NO. 28 2nd WORD															
wd 17	SLOT BLOCK NO. 28 3rd WORD															
wd 18	SLOT BLOCK NO. 28 4th WORD															
wd 19	SLOT BLOCK NO. 28 5th WORD															
wd 20	SLOT BLOCK NO. 28 6th WORD															
wd 21	SLOT BLOCK NO. 29 1st WORD															
wd 22	SLOT BLOCK NO. 29 2nd WORD															
wd 23	SLOT BLOCK NO. 29 3rd WORD															
wd 24	SLOT BLOCK NO. 29 4th WORD															
wd 25	SLOT BLOCK NO. 29 5th WORD															
wd 26	SLOT BLOCK NO. 29 6th WORD															
wd 27	SLOT BLOCK NO. 30 1st WORD															
wd 28	SLOT BLOCK NO. 30 2nd WORD															
wd 29	SLOT BLOCK NO. 30 3rd WORD															
wd 30	SLOT BLOCK NO. 30 4th WORD															
wd 31	SLOT BLOCK NO. 30 5th WORD															
wd 32	SLOT BLOCK NO. 30 6th WORD															

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 9 (SEE 30.4.1.2)															
wd 3	SLOT BLOCK NO. 31 1st WORD															
wd 4	SLOT BLOCK NO. 31 2nd WORD															
wd 5	SLOT BLOCK NO. 31 3rd WORD															
wd 6	SLOT BLOCK NO. 31 4th WORD															
wd 7	SLOT BLOCK NO. 31 5th WORD															
wd 8	SLOT BLOCK NO. 31 6th WORD															
wd 9	SLOT BLOCK NO. 32 1st WORD															
wd 10	SLOT BLOCK NO. 32 2nd WORD															
wd 11	SLOT BLOCK NO. 32 3rd WORD															
wd 12	SLOT BLOCK NO. 32 4th WORD															
wd 13	SLOT BLOCK NO. 32 5th WORD															
wd 14	SLOT BLOCK NO. 32 6th WORD															
wd 15	SLOT BLOCK NO. 33 1st WORD															
wd 16	SLOT BLOCK NO. 33 2nd WORD															
wd 17	SLOT BLOCK NO. 33 3rd WORD															
wd 18	SLOT BLOCK NO. 33 4th WORD															
wd 19	SLOT BLOCK NO. 33 5th WORD															
wd 20	SLOT BLOCK NO. 33 6th WORD															
wd 21	SLOT BLOCK NO. 34 1st WORD															
wd 22	SLOT BLOCK NO. 34 2nd WORD															
wd 23	SLOT BLOCK NO. 34 3rd WORD															
wd 24	SLOT BLOCK NO. 34 4th WORD															
wd 25	SLOT BLOCK NO. 34 5th WORD															
wd 26	SLOT BLOCK NO. 34 6th WORD															
wd 27	SLOT BLOCK NO. 35 1st WORD															
wd 28	SLOT BLOCK NO. 35 2nd WORD															
wd 29	SLOT BLOCK NO. 35 3rd WORD															
wd 30	SLOT BLOCK NO. 35 4th WORD															
wd 31	SLOT BLOCK NO. 35 5th WORD															
wd 32	SLOT BLOCK NO. 35 6th WORD															

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 10 (SEE 30.4.1.2)															
wd 3	SLOT BLOCK NO. 36 1st WORD															
wd 4	SLOT BLOCK NO. 36 2nd WORD															
wd 5	SLOT BLOCK NO. 36 3rd WORD															
wd 6	SLOT BLOCK NO. 36 4th WORD															
wd 7	SLOT BLOCK NO. 36 5th WORD															
wd 8	SLOT BLOCK NO. 36 6th WORD															
wd 9	SLOT BLOCK NO. 37 1st WORD															
wd 10	SLOT BLOCK NO. 37 2nd WORD															
wd 11	SLOT BLOCK NO. 37 3rd WORD															
wd 12	SLOT BLOCK NO. 37 4th WORD															
wd 13	SLOT BLOCK NO. 37 5th WORD															
wd 14	SLOT BLOCK NO. 37 6th WORD															
wd 15	SLOT BLOCK NO. 38 1st WORD															
wd 16	SLOT BLOCK NO. 38 2nd WORD															
wd 17	SLOT BLOCK NO. 38 3rd WORD															
wd 18	SLOT BLOCK NO. 38 4th WORD															
wd 19	SLOT BLOCK NO. 38 5th WORD															
wd 20	SLOT BLOCK NO. 38 6th WORD															
wd 21	SLOT BLOCK NO. 39 1st WORD															
wd 22	SLOT BLOCK NO. 39 2nd WORD															
wd 23	SLOT BLOCK NO. 39 3rd WORD															
wd 24	SLOT BLOCK NO. 39 4th WORD															
wd 25	SLOT BLOCK NO. 39 5th WORD															
wd 26	SLOT BLOCK NO. 39 6th WORD															
wd 27	SLOT BLOCK NO. 40 1st WORD															
wd 28	SLOT BLOCK NO. 40 2nd WORD															
wd 29	SLOT BLOCK NO. 40 3rd WORD															
wd 30	SLOT BLOCK NO. 40 4th WORD															
wd 31	SLOT BLOCK NO. 40 5th WORD															
wd 32	SLOT BLOCK NO. 40 6th WORD															

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 11 (SEE 30.4.1.2)															
wd 3	SLOT BLOCK NO. 41 1st WORD															
wd 4	SLOT BLOCK NO. 41 2nd WORD															
wd 5	SLOT BLOCK NO. 41 3rd WORD															
wd 6	SLOT BLOCK NO. 41 4th WORD															
wd 7	SLOT BLOCK NO. 41 5th WORD															
wd 8	SLOT BLOCK NO. 41 6th WORD															
wd 9	SLOT BLOCK NO. 42 1st WORD															
wd 10	SLOT BLOCK NO. 42 2nd WORD															
wd 11	SLOT BLOCK NO. 42 3rd WORD															
wd 12	SLOT BLOCK NO. 42 4th WORD															
wd 13	SLOT BLOCK NO. 42 5th WORD															
wd 14	SLOT BLOCK NO. 42 6th WORD															
wd 15	SLOT BLOCK NO. 43 1st WORD															
wd 16	SLOT BLOCK NO. 43 2nd WORD															
wd 17	SLOT BLOCK NO. 43 3rd WORD															
wd 18	SLOT BLOCK NO. 43 4th WORD															
wd 19	SLOT BLOCK NO. 43 5th WORD															
wd 20	SLOT BLOCK NO. 43 6th WORD															
wd 21	SLOT BLOCK NO. 44 1st WORD															
wd 22	SLOT BLOCK NO. 44 2nd WORD															
wd 23	SLOT BLOCK NO. 44 3rd WORD															
wd 24	SLOT BLOCK NO. 44 4th WORD															
wd 25	SLOT BLOCK NO. 44 5th WORD															
wd 26	SLOT BLOCK NO. 44 6th WORD															
wd 27	SLOT BLOCK NO. 45 1st WORD															
wd 28	SLOT BLOCK NO. 45 2nd WORD															
wd 29	SLOT BLOCK NO. 45 3rd WORD															
wd 30	SLOT BLOCK NO. 45 4th WORD															
wd 31	SLOT BLOCK NO. 45 5th WORD															
wd 32	SLOT BLOCK NO. 45 6th WORD															

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 12 (SEE 30.4.1.2)															
wd 3	SLOT BLOCK NO. 46 1st WORD															
wd 4	SLOT BLOCK NO. 46 2nd WORD															
wd 5	SLOT BLOCK NO. 46 3rd WORD															
wd 6	SLOT BLOCK NO. 46 4th WORD															
wd 7	SLOT BLOCK NO. 46 5th WORD															
wd 8	SLOT BLOCK NO. 46 6th WORD															
wd 9	SLOT BLOCK NO. 47 1st WORD															
wd 10	SLOT BLOCK NO. 47 2nd WORD															
wd 11	SLOT BLOCK NO. 47 3rd WORD															
wd 12	SLOT BLOCK NO. 47 4th WORD															
wd 13	SLOT BLOCK NO. 47 5th WORD															
wd 14	SLOT BLOCK NO. 47 6th WORD															
wd 15	SLOT BLOCK NO. 48 1st WORD															
wd 16	SLOT BLOCK NO. 48 2nd WORD															
wd 17	SLOT BLOCK NO. 48 3rd WORD															
wd 18	SLOT BLOCK NO. 48 4th WORD															
wd 19	SLOT BLOCK NO. 48 5th WORD															
wd 20	SLOT BLOCK NO. 48 6th WORD															
wd 21	SLOT BLOCK NO. 49 1st WORD															
wd 22	SLOT BLOCK NO. 49 2nd WORD															
wd 23	SLOT BLOCK NO. 49 3rd WORD															
wd 24	SLOT BLOCK NO. 49 4th WORD															
wd 25	SLOT BLOCK NO. 49 5th WORD															
wd 26	SLOT BLOCK NO. 49 6th WORD															
wd 27	SLOT BLOCK NO. 50 1st WORD															
wd 28	SLOT BLOCK NO. 50 2nd WORD															
wd 29	SLOT BLOCK NO. 50 3rd WORD															
wd 30	SLOT BLOCK NO. 50 4th WORD															
wd 31	SLOT BLOCK NO. 50 5th WORD															
wd 32	SLOT BLOCK NO. 50 6th WORD															

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 13 (SEE 30.4.1.2)															
wd 3	SLOT BLOCK NO. 51 1st WORD															
wd 4	SLOT BLOCK NO. 51 2nd WORD															
wd 5	SLOT BLOCK NO. 51 3rd WORD															
wd 6	SLOT BLOCK NO. 51 4th WORD															
wd 7	SLOT BLOCK NO. 51 5th WORD															
wd 8	SLOT BLOCK NO. 51 6th WORD															
wd 9	SLOT BLOCK NO. 52 1st WORD															
wd 10	SLOT BLOCK NO. 52 2nd WORD															
wd 11	SLOT BLOCK NO. 52 3rd WORD															
wd 12	SLOT BLOCK NO. 52 4th WORD															
wd 13	SLOT BLOCK NO. 52 5th WORD															
wd 14	SLOT BLOCK NO. 52 6th WORD															
wd 15	SLOT BLOCK NO. 53 1st WORD															
wd 16	SLOT BLOCK NO. 53 2nd WORD															
wd 17	SLOT BLOCK NO. 53 3rd WORD															
wd 18	SLOT BLOCK NO. 53 4th WORD															
wd 19	SLOT BLOCK NO. 53 5th WORD															
wd 20	SLOT BLOCK NO. 53 6th WORD															
wd 21	SLOT BLOCK NO. 54 1st WORD															
wd 22	SLOT BLOCK NO. 54 2nd WORD															
wd 23	SLOT BLOCK NO. 54 3rd WORD															
wd 24	SLOT BLOCK NO. 54 4th WORD															
wd 25	SLOT BLOCK NO. 54 5th WORD															
wd 26	SLOT BLOCK NO. 54 6th WORD															
wd 27	SLOT BLOCK NO. 55 1st WORD															
wd 28	SLOT BLOCK NO. 55 2nd WORD															
wd 29	SLOT BLOCK NO. 55 3rd WORD															
wd 30	SLOT BLOCK NO. 55 4th WORD															
wd 31	SLOT BLOCK NO. 55 5th WORD															
wd 32	SLOT BLOCK NO. 55 6th WORD															

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 14 (SEE 30.4.1.2)															
wd 3	SLOT BLOCK NO. 56 1st WORD															
wd 4	SLOT BLOCK NO. 56 2nd WORD															
wd 5	SLOT BLOCK NO. 56 3rd WORD															
wd 6	SLOT BLOCK NO. 56 4th WORD															
wd 7	SLOT BLOCK NO. 56 5th WORD															
wd 8	SLOT BLOCK NO. 56 6th WORD															
wd 9	SLOT BLOCK NO. 57 1st WORD															
wd 10	SLOT BLOCK NO. 57 2nd WORD															
wd 11	SLOT BLOCK NO. 57 3rd WORD															
wd 12	SLOT BLOCK NO. 57 4th WORD															
wd 13	SLOT BLOCK NO. 57 5th WORD															
wd 14	SLOT BLOCK NO. 57 6th WORD															
wd 15	SLOT BLOCK NO. 58 1st WORD															
wd 16	SLOT BLOCK NO. 58 2nd WORD															
wd 17	SLOT BLOCK NO. 58 3rd WORD															
wd 18	SLOT BLOCK NO. 58 4th WORD															
wd 19	SLOT BLOCK NO. 58 5th WORD															
wd 20	SLOT BLOCK NO. 58 6th WORD															
wd 21	SLOT BLOCK NO. 59 1st WORD															
wd 22	SLOT BLOCK NO. 59 2nd WORD															
wd 23	SLOT BLOCK NO. 59 3rd WORD															
wd 24	SLOT BLOCK NO. 59 4th WORD															
wd 25	SLOT BLOCK NO. 59 5th WORD															
wd 26	SLOT BLOCK NO. 59 6th WORD															
wd 27	SLOT BLOCK NO. 60 1st WORD															
wd 28	SLOT BLOCK NO. 60 2nd WORD															
wd 29	SLOT BLOCK NO. 60 3rd WORD															
wd 30	SLOT BLOCK NO. 60 4th WORD															
wd 31	SLOT BLOCK NO. 60 5th WORD															
wd 32	SLOT BLOCK NO. 60 6th WORD															

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 15 (SEE 30.4.1.2)															
wd 3	SLOT BLOCK NO. 61 1st WORD															
wd 4	SLOT BLOCK NO. 61 2nd WORD															
wd 5	SLOT BLOCK NO. 61 3rd WORD															
wd 6	SLOT BLOCK NO. 61 4th WORD															
wd 7	SLOT BLOCK NO. 61 5th WORD															
wd 8	SLOT BLOCK NO. 61 6th WORD															
wd 9	SLOT BLOCK NO. 62 1st WORD															
wd 10	SLOT BLOCK NO. 62 2nd WORD															
wd 11	SLOT BLOCK NO. 62 3rd WORD															
wd 12	SLOT BLOCK NO. 62 4th WORD															
wd 13	SLOT BLOCK NO. 62 5th WORD															
wd 14	SLOT BLOCK NO. 62 6th WORD															
wd 15	SLOT BLOCK NO. 63 1st WORD															
wd 16	SLOT BLOCK NO. 63 2nd WORD															
wd 17	SLOT BLOCK NO. 63 3rd WORD															
wd 18	SLOT BLOCK NO. 63 4th WORD															
wd 19	SLOT BLOCK NO. 63 5th WORD															
wd 20	SLOT BLOCK NO. 63 6th WORD															
wd 21	SLOT BLOCK NO. 64 1st WORD															
wd 22	SLOT BLOCK NO. 64 2nd WORD															
wd 23	SLOT BLOCK NO. 64 3rd WORD															
wd 24	SLOT BLOCK NO. 64 4th WORD															
wd 25	SLOT BLOCK NO. 64 5th WORD															
wd 26	SLOT BLOCK NO. 64 6th WORD															
wd 27	NOT USED															
wd 28	NOT USED															
wd 29	NOT USED															
wd 30	NOT USED															
wd 31	NOT USED															
wd 32	NOT USED															

30.4.5 Initialization Data Block 16.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 16 (SEE 30.4.1.2)															
wd 3	HOST MESSAGE FILTER WORD 1															
wd 4	HOST MESSAGE FILTER WORD 2															
wd 5	HOST MESSAGE FILTER WORD 3															
wd 6	HOST MESSAGE FILTER WORD 4															
wd 7	HOST MESSAGE FILTER WORD 5															
wd 8	HOST MESSAGE FILTER WORD 6															
wd 9	HOST MESSAGE FILTER WORD 7															
wd 10	HOST MESSAGE FILTER WORD 8															
wd 11	HOST MESSAGE FILTER WORD 9															
wd 12	HOST MESSAGE FILTER WORD 10															
wd 13	HOST MESSAGE FILTER WORD 11															
wd 14	HOST MESSAGE FILTER WORD 12															
wd 15	HOST MESSAGE FILTER WORD 13															
wd 16	HOST MESSAGE FILTER WORD 14															
wd 17	HOST MESSAGE FILTER WORD 15															
wd 18	HOST MESSAGE FILTER WORD 16															
wd 19	HOST ADDRESSED/RECEIVED MSG FILTER WORD															
wd 20	HOST UMF WORD 1 (RESERVED FOR ARMY APPLICATION)															
wd 21	HOST UMF WORD 2 (RESERVED FOR ARMY APPLICATION)															
wd 22	HOST UMF WORD 3 (RESERVED FOR ARMY APPLICATION)															
wd 23	HOST UMF WORD 4 (RESERVED FOR ARMY APPLICATION)															
wd 24	HOST UMF WORD 5 (RESERVED FOR ARMY APPLICATION)															
wd 25	HOST UMF WORD 6 (RESERVED FOR ARMY APPLICATION)															
wd 26	HOST UMF WORD 7 (RESERVED FOR ARMY APPLICATION)															
wd 27	HOST UMF WORD 8 (RESERVED FOR ARMY APPLICATION)															
wd 28	FIGHTER NPG/NET															
wd 29	SPARE NPG/NET															
wd 30	HOST MODE CONTROL WORD															
wd 31	DATE WORD NO. 1															
wd 32	DATE WORD NO. 2															

30.4.5.1 <u>Host Message Filter Words</u>. (16 words) (Block 16, Words 3 through 18).

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	J1.7	J1.6	J1.5	J1.4	J1.3	J1.2	J1.1	J1.0	J0.7	J0.6	J0.5	J0.4	J0.3	J0.2	J0.1	J0.0
wd 2	J3.7	J3.6	J3.5	J3.4	J3.3	J3.2	J3.1	J3.0	J2.7	J2.6	J2.5	J2.4	J2.3	J2.2	J2.1	J2.0
wd 3	J5.7	J5.6	J5.5	J5.4	J5.3	J5.2	J5.1	J5.0	J4.7	J4.6	J4.5	J4.4	J4.3	J4.2	J4.1	J4.0
wd 4	J7.7	J7.6	J7.5	J7.4	J7.3	J7.2	J7.1	J7.0	J6.7	J6.6	J6.5	J6.4	J6.3	J6.2	J6.1	J6.0
wd 5	J9.7	J9.6	J9.5	J9.4	J9.3	J9.2	J9.1	J9.0	J8.7	J8.6	J8.5	J8.4	J8.3	J8.2	J8.1	J8.0
wd 6	J11.7	J11.6	J11.5	J11.4	J11.3	J11.2	J11.1	J11.0	J10.7	J10.6	J10.5	J10.4	J10.3	J10.2	J10.1	J10.0
wd 7	J13.7	J13.6	J13.5	J13.4	J13.3	J13.2	J13.1	J13.0	J12.7	J12.6	J12.5	J12.4	J12.3	J12.2	J12.1	J12.0
wd 8	J15.7	J15.6	J15.5	J15.4	J15.3	J15.2	J15.1	J15.0	J14.7	J14.6	J14.5	J14.4	J14.3	J14.2	J14.1	J14.0
wd 9	J17.7	J17.6	J17.5	J17.4	J17.3	J17.2	J17.1	J17.0	J16.7	J16.6	J16.5	J16.4	J16.3	J16.2	J16.1	J16.0
wd 10	J19.7	J19.6	J19.5	J19.4	J19.3	J19.2	J19.1	J19.0	J18.7	J18.6	J18.5	J18.4	J18.3	J18.2	J18.1	J18.0
wd 11	J21.7	J21.6	J21.5	J21.4	J21.3	J21.2	J21.1	J21.0	J20.7	J20.6	J20.5	J20.4	J20.3	J20.2	J20.1	J20.0
wd 12	J23.7	J23.6	J23.5	J23.4	J23.3	J23.2	J23.1	J23.0	J22.7	J22.6	J22.5	J22.4	J22.3	J22.2	J22.1	J22.0
wd 13	J25.7	J25.6	J25.5	J25.4	J25.3	J25.2	J25.1	J25.0	J24.7	J24.6	J24.5	J24.4	J24.3	J24.2	J24.1	J24.0
wd 14	J27.7	J27.6	J27.5	J27.4	J27.3	J27.2	J27.1	J27.0	J26.7	J26.6	J26.5	J26.4	J26.3	J26.2	J26.1	J26.0
wd 15	J29.7	J29.6	J29.5	J29.4	J29.3	J29.2	J29.1	J29.0	J28.7	J28.6	J28.5	J28.4	J28.3	J28.2	J28.1	J28.0
wd 16	J31.7	J31.6	J31.5	J31.4	J31.3	J31.2	J31.1	J31.0	J30.7	J30.6	J30.5	J30.4	J30.3	J30.2	J30.1	J30.0

LOGIC 0 = PROVIDE MESSAGE
LOGIC 1 = DO NOT PROVIDE MESSAGE

INITIALIZATION BLOCK 16

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique values of the Host Message
Filter Words, see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique values of the Host Message
Filter Words, see Appendix VIII.

30.4.5.2 Host Addressed/Received Message Filter Word. (Block 16, Word 19)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 19						FT								ALL	SEC	PRI

The bit designation shall be as follows:

BIT   DESIGNATION

0   PRIMARY TRACK NUMBER FILTER (PRI)
             LOGIC 0 = PROVIDE ALL MESSAGES ADDRESSED TO PRIMARY
             TN.

             FOR NAVY SHIPBOARD:
             For the Navy Shipboard unique Primary Track Number
             Filter field, see Appendix VIII.

             FOR NAVY AIRBORNE:
             For the Navy Airborne unique Primary Track Number
             Filter field, see Appendix VIII.

1   SECONDARY TRACK NUMBER FILTER (SEC)
             LOGIC 0 = PROVIDE ALL MESSAGES ADDRESSED TO SECONDARY
             TNs

             FOR NAVY SHIPBOARD:
             For the Navy Shipboard unique Secondary Track Number
             Filter field, see Appendix VIII.

             FOR NAVY AIRBORNE:
             For the Navy Airborne unique Secondary Track Number
             Filter field, see Appendix VIII.

INITIALIZATION BLOCK 16

BIT	DESIGNATION

2   ALL TRACK NUMBERS FILTER (ALL)H
         LOGIC 0 = PROVIDE ALL ADDRESSED MESSAGES

         FOR NAVY SHIPBOARD:
         For the Navy Shipboard unique All Track Numbers Filter
         field, see Appendix VIII.

         FOR NAVY AIRBORNE:
         For the Navy Airborne unique All Track Numbers Filter
         field, see Appendix VIII.

3-9   NOT USED

10   NON-VOICE FREE TEXT FILTER (FT)
         LOGIC 0 = PROVIDE ALL NON-VOICE RECEIVED FREE TEXT
                     MESSAGES
         DEFAULT VALUE = LOGIC 1 (DO NOT PROVIDE)

11-15   NOT USED

H IF THIS FIELD IS SET TO 0 (PROVIDE ALL), THE VALUES FOR BIT 0 AND
  BIT 1 ARE IGNORED.

NOTE: 1. AN ADDRESSED MESSAGE MUST BE ACCEPTED BY THE LABEL/SUBLABEL
          BEFORE ENTERING THE ADDRESS FILTER.

       2. FOR F-15 APPLICATIONS: ALL MESSAGES ADDRESSED TO FLIGHT
       MEMBERS ARE PASSED TO THE HOST REGARDLESS OF THE SETTINGS OF
       THE BITS IN INITIALIZATION DATA BLOCK 16, WORD 19.

                                        INITIALIZATION BLOCK 16

30.4.5.3 Host User Message Format (UMF) Label Filter Words (8 words).
(Block 16, Words 20 through 27) (ARMY ONLY)

| MSB | | | | | | | | | | | | | | | LSB |
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 2	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
wd 3	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32
wd 4	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48
wd 5	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64
wd 6	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80
wd 7	111	110	109	108	107	106	105	104	103	102	101	100	99	98	97	96
wd 8	127	126	125	124	123	122	121	120	119	118	117	116	115	114	113	112

The bit designation shall be as follows:

        LOGIC 0 = PROVIDE MESSAGE
        LOGIC 1 = DO NOT PROVIDE MESSAGE

BIT SETTINGS DETERMINED BY:
  A. INCREMENT DESIRED VALUE OF THREE (3) BIT SERVICE DESIGNATOR FIELD BY
     ONE TO INDICATED WORD NUMBER
  B. DESIRED VALUE OF FOUR (4) BIT UMF LABEL FIELD INDICATES BIT POSITION
     WITHIN THE WORD

                              INITIALIZATION BLOCK 16

30.4.5.4 <u>Fighter NPG/Net</u>. (Block 16, Word 28) F-15 ONLY

	MSB														LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 28	FNPG									FNET						

The bit designation shall be as follows:

<u>BIT</u>   <u>DESIGNATION</u>

0-6   FIGHTER NET (FNET)
            RANGE = 0 TO 127

7-15   FIGHTER NET PARTICIPATION GROUP (FNPG)
            RANGE = 1 TO 511

NOTE: When the Fighter NPG is set to all zeroes; the Fighter NPG/Net
word (Block 16, Word 28) will be invalid. NPG values will
exclude voice, control, initial entry, and the zero NPG. When
the Fighter NPG/Net word is valid, and the Fighter Net is not
127, the Terminal will use the Fighter Net to replace the three
net numbers in time and relay time slot assignments that have
the NPG identified by the Fighter NPG. If no such slot
assignments exist, the terminal will set the Fighter Net to
127. Also, when the Fighter NPG/Net word is valid, and the
Fighter Net is not 127 (and is not set by the Terminal as
described above), the Terminal will override the setting of
Mission Correlator #1 as initialized in Block 2, Word 22, Bits
8-15, setting it to the Fighter Net. The most significant bit
of Mission Correlator #1 (Word 22, Bit 8) will be set to zero
if changed by the Terminal in this fashion from its initialized
value.

INITIALIZATION BLOCK 16

30.4.5.5 Spare NPG/Net. (Block 16, Word 29) F-15 ONLY

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 29	SNPG									SNET						

The bit designation shall be as follows:

BIT   DESIGNATION

0-6   SPARE NET (SNET)
           RANGE = 0 TO 127

7-15   SPARE NET PARTICIPATION GROUP (SNPG)
           RANGE = 1 TO 511

NOTE: When the Spare NPG is set to all zeroes; the Spare NPG/Net word
       (Block 16, Word 29) will be invalid. NPG values will exclude
       voice, control, initial entry, and the zero NPG. When the Spare
       NPG/Net word is valid, and the Spare Net is not 127, the
       Terminal will use the Spare Net to replace the three net
       numbers in time and relay time slot assignments that have the
       NPG identified by the Spare NPG. If no such slot assignments
       exist, the terminal will set the Spare Net to 127. Also, when
       the Spare NPG/Net word is valid, and the Spare Net is not 127
       (and is not set by the Terminal as described above), the
       Terminal will override the setting of Mission Correlator #1 as
       initialized in Block 2, Word 22, Bits 8-15, setting it to the
       Spare Net. The most significant bit of Mission Correlator #1
       (Word 22, Bit 8) will be set to zero if changed by the Terminal
       in this fashion from its initialized value.

INITIALIZATION BLOCK 16

30.4.5.6 Spare NPG/Net. (Block 16, Word 30) F-15 ONLY

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 30											NC	IJMS TRANS FREQ			STTR	STUR

MSB (bit 15), _LSB_ (bit 0)

The bit designation shall be as follows:

     BIT   DESIGNATION

     0   SENSOR TARGET UPDATE RATE
                       0 = TIDP UPDATE RATE
                       1 = TWICE THE TIDP UPDATE RATE

     1   SENSOR TARGET TRANSMIT RULE
                       0 = USE TIDP RULE
                       1 = USE OPTIMIZED RULE

     2-4   IJMS TRANSLATION FREQUENCY:
                       0 = DO NO TRANSLATION
                       1 = TRANSLATE EVERY ONE
                       2 = TRANSLATE EVERY OTHER
                       :
                       :
                       7 = TRANSLATE EVERY SEVENTH

  NOTE: Translate all special (repeated) messages if frequency not
         equal to 0.

     5   NAV CORRECTIONS:
                       0 = USE GEODETIC
                       1 = USE RELATIVE

     6-15   NOT USED

  NOTE: Bit pattern to be stored by host only.

INITIALIZATION BLOCK 16

30.4.5.7 <u>Date Word No. 1</u>. (Block 16, Word 31) F-15 ONLY

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 31					DATE YEAR (TENS DIGIT)				DATE YEAR (ONES DIGIT)				DATE MONTH			

The bit designation shall be as follows:

<u>BIT</u>	<u>DESIGNATION</u>
0-3	DATE MONTH RANGE: 1-12
4-7	DATE YEAR (ONES DIGIT) RANGE: 0-9
8-11	DATE YEAR (TENS DIGIT) RANGE: 0-9
12-15	NOT USED

30.4.5.8 <u>Date Word No. 2</u>. (Block 16, Word 32) F-15 ONLY

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 32													DATE DAY			

The bit designation shall be as follows:

<u>BIT</u>	<u>DESIGNATION</u>
0-4	DATE DAY RANGE: 1-31
5-15	NOT USED

INITIALIZATION BLOCK 16

30.4.6 Initialization Data Blocks 17 Through 19.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 17 (SEE 30.4.1.2)															
wd 3	VOICE GROUP A VARIABLE CONTROL WORD															
wd 4	VOICE GROUP B VARIABLE CONTROL WORD															
wd 5	CONTROL CHANNEL VARIABLE CONTROL WORD															
wd 6	VARIABLE DEFINITION WORD 1															
wd 7	VARIABLE DEFINITION WORD 2															
wd 8	VARIABLE DEFINITION WORD 3															
wd 9	VARIABLE DEFINITION WORD 4															
wd 10	VARIABLE DEFINITION WORD 5															
wd 11	VARIABLE DEFINITION WORD 6															
wd 12	VARIABLE DEFINITION WORD 7															
wd 13	VARIABLE DEFINITION WORD 8															
wd 14	VARIABLE DEFINITION WORD 9															
wd 15	VARIABLE DEFINITION WORD 10															
wd 16	VARIABLE DEFINITION WORD 11															
wd 17	VARIABLE DEFINITION WORD 12															
wd 18	VARIABLE DEFINITION WORD 13															
wd 19	VARIABLE DEFINITION WORD 14															
wd 20	VARIABLE DEFINITION WORD 15															
wd 21	VARIABLE DEFINITION WORD 16															
wd 22	VARIABLE DEFINITION WORD 17															
wd 23	VARIABLE DEFINITION WORD 18															
wd 24	VARIABLE DEFINITION WORD 19															
wd 25	VARIABLE DEFINITION WORD 20															
wd 26	VARIABLE DEFINITION WORD 21															
wd 27	VARIABLE DEFINITION WORD 22															
wd 28	VARIABLE DEFINITION WORD 23															
wd 29	VARIABLE DEFINITION WORD 24															
wd 30	VARIABLE DEFINITION WORD 25															
wd 31	VARIABLE DEFINITION WORD 26															
wd 32	VARIABLE DEFINITION WORD 27															

30.4.6.1 Voice/Control Channel SDU Variable Definition Words (Block 17, Word 3 through Block 20, Word 11).

	MSB 15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	LSB 0	
wd 3		CHANNELS IN BLOCK (NCA)								STARTING NET (SNA)							VOICE GROUP A
wd 4		CHANNELS IN BLOCK (NCB)								STARTING NET (SNB)							VOICE GROUP B
wd 5		CHANNELS IN BLOCK (NCC)								STARTING NET (SNC)							CONTROL GROUP
	V A L	VARIABLES FOR NET SNA+1							V A L	VARIABLES FOR NET SNA							1 TO MH VARIABLE DEFINI- TION WORDS
	V A L	VARIABLES FOR NET SNA+3							V A L	VARIABLES FOR NET SNA+2							CONTAIN- ING
																	1 TO N VARIABLE LABELS (1/2 WORDS)
	V A L	VARIABLE FOR NET SNB							V A L	VARIABLE FOR NET SNA+NCA-1							
	V A L	VARIABLE FOR NET SNB+2							V A L	VARIABLE FOR NET SNB+1							
	V A L	VARIABLE FOR NET SNC							V A L	VARIABLE FOR NET SNB+NCB-1							
	V A L	VARIABLE FOR NET SNC+2							V A L	VARIABLE FOR NET SNC+1							
	V A L	VARIABLE FOR NET SNC+NCC-1							V A L	VARIABLE FOR NET SNC+NCC-2							

Where: N = NCA+NCB+NCC # 192

$$M = \left\lceil \frac{NCA+NCB+NCC+1}{2} \right\rceil \quad \text{TRUNCATED} \# 96$$

INITIALIZATION BLOCKS 17-20

The bit designation shall be as follows:

WORD 3   Voice Group A Control Word

    BIT   DESIGNATION

    0-6   STARTING NET NUMBER FOR VOICE GROUP A (SNA)
                  0-126 = ASSIGNED STARTING NET NUMBER
                  127 = NOT USED
                  DEFAULT VALUE = 0

    7   NOT USED

    8-14   NUMBER OF CHANNELS IN VOICE GROUP A (NCA)
                  0 = NO ASSIGNMENT - DEFAULT VALUE
                  1-127 = ASSIGNED NUMBER

  NOTE: HOST WILL ENSURE THAT (SNA+NCA) IS LESS THAN 128.

    15   NOT USED

WORD 4   VOICE GROUP B CONTROL WORD. SAME FORMAT AND NOTE AS WORD
                  3.

WORD 5   Control Group

    BIT   DESIGNATION

    0-6   STARTING NET NUMBER FOR CONTROL GROUP (SNC)
                  0-126 = ASSIGNED STARTING NET NUMBER
                    127 = NOT USED
                  DEFAULT VALUE = 0

    7   NOT USED

    8-14   NUMBER OF CHANNELS IN CONTROL GROUP (NCC)
                      0 = NO ASSIGNMENT - DEFAULT VALUE
                  1-127 = ASSIGNED NUMBER

  NOTE: HOST WILL ENSURE THAT (SNC+NCC) IS LESS THAN 128.

    15   NOT USED

WORD MH

    BIT   DESIGNATION

    0-6   VARIABLE FOR NET N
                  0 = NICP WILL DETERMINE THE APPROPRIATE SDU
                      VARIABLE. (DEFAULT VALUE)
                  1-127 = ASSIGNED VARIABLE

                                    INITIALIZATION BLOCK 17-20

WORD M<u>H</u> (CONTINUED)

<u>BIT</u>   <u>DESIGNATION</u>

7   LOGIC 1 = ASSIGNMENT VALID
           LOGIC 0 = ASSIGNMENT INVALID - DEFAULT VALUE

8-14   VARIABLE FOR NET N+1
           0 = NICP WILL DETERMINE THE APPROPRIATE SDU
               VARIABLE. (DEFAULT VALUE)
           1-127 = ASSIGNED VARIABLE

15   LOGIC 1 = ASSIGNMENT VALID
           LOGIC 0 = ASSIGNMENT INVALID - DEFAULT VALUE

H "M" VARIES FROM WORD 6 OF BLOCK 17 THROUGH WORD 11 OF BLOCK 20.

NOTES: WHEN THE HOST REQUESTS TRANSMISSIONS ON A VOICE OR CONTROL
       CHANNEL, THE DPG GOES THROUGH THE FOLLOWING STEPS:

1.   The SICP checks the Host-supplied net number (see 30.4.17.2 and
      30.4.17.3). The Host defines this number via TIM 1 (see
      80.1.4.6.1).

2.   If there exist Slot Assignment Block(s) (see 30.4.4.1 and
      30.4.4.2) for the given channel (Voice A, Voice B or Control)
      and net number (as defined in #1 above), the NICP uses the
      information in the non-quiescent (as indicated by SICP, see
      30.4.4.1) SAB(s) for the transmission.

3.   If there are no such SAB(s) (as defined in #2 above), the NICP
      uses the non-quiescent (as indicated by SICP, see 30.4.4.1)
      SAB(s) for the given channel in which the net is defined as 127
      (no statement) in determining the transmission slots and TSEC;
      the Host-supplied net as the transmission net; and the MSEC as
      given below:

      a.   If the SAB(s) are PVM, and the Host has supplied an MSEC
           in the voice/control SDU variable definition table, the
           NICP uses this supplied value.

      b.   If the SAB(s) are PVM and the Host has not supplied an
           MSEC in the voice/control SDU variable definition table,
           the NICP will use the MSEC in the SAB(s).

      c.   If the SAB(s) are Common Variable mode, the NICP uses the
           MSEC (=TSEC) in the SAB(s).

                              INITIALIZATION BLOCKS 17-20

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 18 (SEE 30.4.1.2)															
wd 3	VARIABLE DEFINITION WORD 28															
wd 4	VARIABLE DEFINITION WORD 29															
wd 5	VARIABLE DEFINITION WORD 30															
wd 6	VARIABLE DEFINITION WORD 31															
wd 7	VARIABLE DEFINITION WORD 32															
wd 8	VARIABLE DEFINITION WORD 33															
wd 9	VARIABLE DEFINITION WORD 34															
wd 10	VARIABLE DEFINITION WORD 35															
wd 11	VARIABLE DEFINITION WORD 36															
wd 12	VARIABLE DEFINITION WORD 37															
wd 13	VARIABLE DEFINITION WORD 38															
wd 14	VARIABLE DEFINITION WORD 39															
wd 15	VARIABLE DEFINITION WORD 40															
wd 16	VARIABLE DEFINITION WORD 41															
wd 17	VARIABLE DEFINITION WORD 42															
wd 18	VARIABLE DEFINITION WORD 43															
wd 19	VARIABLE DEFINITION WORD 44															
wd 20	VARIABLE DEFINITION WORD 45															
wd 21	VARIABLE DEFINITION WORD 46															
wd 22	VARIABLE DEFINITION WORD 47															
wd 23	VARIABLE DEFINITION WORD 48															
wd 24	VARIABLE DEFINITION WORD 49															
wd 25	VARIABLE DEFINITION WORD 50															
wd 26	VARIABLE DEFINITION WORD 51															
wd 27	VARIABLE DEFINITION WORD 52															
wd 28	VARIABLE DEFINITION WORD 53															
wd 29	VARIABLE DEFINITION WORD 54															
wd 30	VARIABLE DEFINITION WORD 55															
wd 31	VARIABLE DEFINITION WORD 56															
wd 32	VARIABLE DEFINITION WORD 57															

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 19 (SEE 30.4.1.2)															
wd 3	VARIABLE DEFINITION WORD 58															
wd 4	VARIABLE DEFINITION WORD 59															
wd 5	VARIABLE DEFINITION WORD 60															
wd 6	VARIABLE DEFINITION WORD 61															
wd 7	VARIABLE DEFINITION WORD 62															
wd 8	VARIABLE DEFINITION WORD 63															
wd 9	VARIABLE DEFINITION WORD 64															
wd 10	VARIABLE DEFINITION WORD 65															
wd 11	VARIABLE DEFINITION WORD 66															
wd 12	VARIABLE DEFINITION WORD 67															
wd 13	VARIABLE DEFINITION WORD 68															
wd 14	VARIABLE DEFINITION WORD 69															
wd 15	VARIABLE DEFINITION WORD 70															
wd 16	VARIABLE DEFINITION WORD 71															
wd 17	VARIABLE DEFINITION WORD 72															
wd 18	VARIABLE DEFINITION WORD 73															
wd 19	VARIABLE DEFINITION WORD 74															
wd 20	VARIABLE DEFINITION WORD 75															
wd 21	VARIABLE DEFINITION WORD 76															
wd 22	VARIABLE DEFINITION WORD 77															
wd 23	VARIABLE DEFINITION WORD 78															
wd 24	VARIABLE DEFINITION WORD 79															
wd 25	VARIABLE DEFINITION WORD 80															
wd 26	VARIABLE DEFINITION WORD 81															
wd 27	VARIABLE DEFINITION WORD 82															
wd 28	VARIABLE DEFINITION WORD 83															
wd 29	VARIABLE DEFINITION WORD 84															
wd 30	VARIABLE DEFINITION WORD 85															
wd 31	VARIABLE DEFINITION WORD 86															
wd 32	VARIABLE DEFINITION WORD 87															

30.4.7 Initialization Data Blocks 20 and 21.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 20 (SEE 30.4.1.2)															
wd 3	VARIABLE DEFINITION WORD 88															
wd 4	VARIABLE DEFINITION WORD 89															
wd 5	VARIABLE DEFINITION WORD 90															
wd 6	VARIABLE DEFINITION WORD 91															
wd 7	VARIABLE DEFINITION WORD 92															
wd 8	VARIABLE DEFINITION WORD 93															
wd 9	VARIABLE DEFINITION WORD 94															
wd 10	VARIABLE DEFINITION WORD 95															
wd 11	VARIABLE DEFINITION WORD 96															
wd 12	INITIAL ENTRY WORD 1															
wd 13	INITIAL ENTRY WORD 2															
wd 14	INITIAL ENTRY WORD 3															
wd 15	INITIAL ENTRY WORD 4															
wd 16	INITIAL ENTRY WORD 5															
wd 17	INITIAL ENTRY WORD 6															
wd 18	INITIAL ENTRY WORD 7															
wd 19	INITIAL ENTRY WORD 8															
wd 20	INITIAL ENTRY WORD 9															
wd 21	INITIAL ENTRY WORD 10															
wd 22	MUX DATA RECORDING FILTER WORD 1															
wd 23	MUX DATA RECORDING FILTER WORD 2															
wd 24	MUX DATA RECORDING FILTER WORD 3															
wd 25	MUX DATA RECORDING FILTER WORD 4															
wd 26	NOT USED															
wd 27	NOT USED															
wd 28	NOT USED															
wd 29	NOT USED															
wd 30	RECORDER BLOCK NO. 1 1st WORD															
wd 31	RECORDER BLOCK NO. 1 2nd WORD															
wd 32	RECORDER BLOCK NO. 1 3rd WORD															

30.4.7.1 Initial Entry Words. (Block 20, Words 12-21). The format of
these words shall be as defined in JINTACCS JTIDS TIDP.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 12																
wd 13																
wd 14																
wd 15																
wd 16																
wd 17																
wd 18																
wd 19																
wd 20																
wd 21																

(MSB at bit 15, LSB at bit 0)

INITIALIZATION BLOCKS 20-21

30.4.7.2 <u>MUX Data Recording Filter Words</u>. (Block 20, Words 22-25).

	15	14	13	12	1 1	10	9	8	7	6	5	4	3	2	1	0
MUX INPUT wd 1	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
MUX INPUT wd 2	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
MUX OUTPUT wd 1	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
MUX OUTPUT wd 2	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16

MSB (above column 15), LSB (above column 0)

The bit designation shall be as follows:

LOGIC 0 = PROVIDE MUX DATA FOR CORRESPONDING MUX SUBADDRESS
LOGIC 1 = DO NOT PROVIDE MUX DATA FOR CORRESPONDING MUX
          SUBADDRESS

        FOR NAVY SHIPBOARD:
        For the Navy Shipboard unique MUX Data Recording Filter
        Words, see Appendix VIII.

        FOR NAVY AIRBORNE:
        For the Navy Airborne unique MUX Data Recording Filter
        Words, see Appendix VIII.

INITIALIZATION BLOCKS 20-21

30.4.7.3 Recorder Block Words (16 Blocks) (Block 20, Words 30 Through
32; Block 21, Words 3 Through 32; and Block 22, Words 3 Through 17). The
sixteen recorder blocks each consist of three words. If the rate of a
particular recorder block is zero, the remainder of the recorder block
words are Don't Care.

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3	M S B	ADDRESS								WORD COUNT						
wd 4	ADDRESS															L S B
wd 5	RATE															

The bit designation shall be as follows:

1ST WORD OF EACH RECORDER BLOCK

    BIT   DESIGNATION

    0-6   WORD COUNT
                1-100 = ASSIGNED WORD COUNT

    7-11   NOT USED

    12-15   4 MSB'S OF 20-BIT STARTING ADDRESS OF THIS DATA RECORDING
                BLOCK. REMAINING 16 BITS ARE LOCATED IN WORD 2.

2ND WORD OF EACH RECORDER BLOCK

    BIT   DESIGNATION

    0-15   16 LSB'S OF 20-BIT STARTING ADDRESS. REMAINING 4 BITS ARE
                LOCATED IN WORD 1

INITIALIZATION BLOCKS 20-21

<u>3RD WORD OF EACH RECORDER BLOCK</u>

<u>BIT</u>   <u>DESIGNATION</u>

0-15   RATE (IN TWO'S COMPLEMENT)

              <0 = PROVIDE ONE TIME ONLY

              0 = DO NOT OUTPUT - DEFAULT VALUE

              1 = PROVIDE EVERY SLOT (ONCE/7.8125 MSEC)

              2 = PROVIDE EVERY OTHER SLOT

              3 = PROVIDE EVERY 3RD SLOT

              4 = PROVIDE EVERY 4TH SLOT
              .
              .
              .
              32767 = PROVIDE EVERY 32767TH SLOT

INITIALIZATION BLOCKS 20-21

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 21 (SEE 30.4.1.2)															
wd 3	RECORDER BLOCK NO. 2 1st WORD															
wd 4	RECORDER BLOCK NO. 2 2nd WORD															
wd 5	RECORDER BLOCK NO. 2 3rd WORD															
wd 6	RECORDER BLOCK NO. 3 1st WORD															
wd 7	RECORDER BLOCK NO. 3 2nd WORD															
wd 8	RECORDER BLOCK NO. 3 3rd WORD															
wd 9	RECORDER BLOCK NO. 4 1st WORD															
wd 10	RECORDER BLOCK NO. 4 2nd WORD															
wd 11	RECORDER BLOCK NO. 4 3rd WORD															
wd 12	RECORDER BLOCK NO. 5 1st WORD															
wd 13	RECORDER BLOCK NO. 5 2nd WORD															
wd 14	RECORDER BLOCK NO. 5 3rd WORD															
wd 15	RECORDER BLOCK NO. 6 1st WORD															
wd 16	RECORDER BLOCK NO. 6 2nd WORD															
wd 17	RECORDER BLOCK NO. 6 3rd WORD															
wd 18	RECORDER BLOCK NO. 7 1st WORD															
wd 19	RECORDER BLOCK NO. 7 2nd WORD															
wd 20	RECORDER BLOCK NO. 7 3rd WORD															
wd 21	RECORDER BLOCK NO. 8 1st WORD															
wd 22	RECORDER BLOCK NO. 8 2nd WORD															
wd 23	RECORDER BLOCK NO. 8 3rd WORD															
wd 24	RECORDER BLOCK NO. 9 1st WORD															
wd 25	RECORDER BLOCK NO. 9 2nd WORD															
wd 26	RECORDER BLOCK NO. 9 3rd WORD															
wd 27	RECORDER BLOCK NO. 10 1st WORD															
wd 28	RECORDER BLOCK NO. 10 2nd WORD															
wd 29	RECORDER BLOCK NO. 10 3rd WORD															
wd 30	RECORDER BLOCK NO. 11 1st WORD															
wd 31	RECORDER BLOCK NO. 11 2nd WORD															
wd 32	RECORDER BLOCK NO. 11 3rd WORD															

30.4.8 Initialization Data Block 22.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 22 (SEE 30.4.1.2)															
wd 3	RECORDER BLOCK NO. 12 1st WORD															
wd 4	RECORDER BLOCK NO. 12 2nd WORD															
wd 5	RECORDER BLOCK NO. 12 3rd WORD															
wd 6	RECORDER BLOCK NO. 13 1st WORD															
wd 7	RECORDER BLOCK NO. 13 2nd WORD															
wd 8	RECORDER BLOCK NO. 13 3rd WORD															
wd 9	RECORDER BLOCK NO. 14 1st WORD															
wd 10	RECORDER BLOCK NO. 14 2nd WORD															
wd 11	RECORDER BLOCK NO. 14 3rd WORD															
wd 12	RECORDER BLOCK NO. 15 1st WORD															
wd 13	RECORDER BLOCK NO. 15 2nd WORD															
wd 14	RECORDER BLOCK NO. 15 3rd WORD															
wd 15	RECORDER BLOCK NO. 16 1st WORD															
wd 16	RECORDER BLOCK NO. 16 2nd WORD															
wd 17	RECORDER BLOCK NO. 16 3rd WORD															
wd 18	TSRD MESSAGE FILTER WORD 1															
wd 19	TSRD MESSAGE FILTER WORD 2															
wd 20	TSRD MESSAGE FILTER WORD 3															
wd 21	TSRD MESSAGE FILTER WORD 4															
wd 22	TSRD MESSAGE FILTER WORD 5															
wd 23	TSRD MESSAGE FILTER WORD 6															
wd 24	TSRD MESSAGE FILTER WORD 7															
wd 25	TSRD MESSAGE FILTER WORD 8															
wd 26	TSRD MESSAGE FILTER WORD 9															
wd 27	TSRD MESSAGE FILTER WORD 10															
wd 28	TSRD MESSAGE FILTER WORD 11															
wd 29	TSRD MESSAGE FILTER WORD 12															
wd 30	TSRD MESSAGE FILTER WORD 13															
wd 31	TSRD MESSAGE FILTER WORD 14															
wd 32	TSRD MESSAGE FILTER WORD 15															

30.4.8.1 <u>TSRD Message Filter Words (16 Words)</u>. (Block 22, Words 18 through 32 and Block 23, Word 3) The word format for the TSRD Message Filter Words shall be the same as the Host Message Filter Words specified in 30.4.5.1.

30.4.9 Initialization Data Block 23.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 23 (SEE 30.4.1.2)															
wd 3	TSRD MESSAGE FILTER WORD 16															
wd 4	TSRD ADDRESSED/LOOPBACK/RECEIVED MSG FILTER															
wd 5	MESSAGE STRUCTURE WORD 1															
wd 6	MESSAGE STRUCTURE WORD 2															
wd 7	MESSAGE STRUCTURE WORD 3															
wd 8	MESSAGE STRUCTURE WORD 4															
wd 9	MESSAGE STRUCTURE WORD 5															
wd 10	MESSAGE STRUCTURE WORD 6															
wd 11	MESSAGE STRUCTURE WORD 7															
wd 12	MESSAGE STRUCTURE WORD 8															
wd 13	MESSAGE STRUCTURE WORD 9															
wd 14	MESSAGE STRUCTURE WORD 10															
wd 15	MESSAGE STRUCTURE WORD 11															
wd 16	MESSAGE STRUCTURE WORD 12															
wd 17	MESSAGE STRUCTURE WORD 13															
wd 18	MESSAGE STRUCTURE WORD 14															
wd 19	MESSAGE STRUCTURE WORD 15															
wd 20	MESSAGE STRUCTURE WORD 16															
wd 21	MESSAGE STRUCTURE WORD 17															
wd 22	MESSAGE STRUCTURE WORD 18															
wd 23	MESSAGE STRUCTURE WORD 19															
wd 24	MESSAGE STRUCTURE WORD 20															
wd 25	MESSAGE STRUCTURE WORD 21															
wd 26	MESSAGE STRUCTURE WORD 22															
wd 27	MESSAGE STRUCTURE WORD 23															
wd 28	MESSAGE STRUCTURE WORD 24															
wd 29	MESSAGE STRUCTURE WORD 25															
wd 30	MESSAGE STRUCTURE WORD 26															
wd 31	MESSAGE STRUCTURE WORD 27															
wd 32	MESSAGE STRUCTURE WORD 28															

30.4.9.1 TSRD Addressed/Loopback/Received Message Filter Word. (Block 23, Word 4).

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 4					H D R	F T	V B	V A	V M F	LOOPBACK				ADDRESSED		
										A L L	R T T	T E S T	P P L I	A L L	S E C	P R I

The bit designation shall be as follows:

BIT	DESIGNATION

0   PRIMARY TRACK NUMBER FILTER (ADDRESSED PRI)
        LOGIC 0 = PROVIDE ALL R/C MESSAGES ADDRESSED TO PRIMARY TN

1   SECONDARY TRACK NUMBER FILTER (ADDRESSED SEC)
        LOGIC 0 = PROVIDE ALL R/C MESSAGES ADDRESSED TO SECONDARY
                  TNS

2   ALL TRACK NUMBERS FILTER (ADDRESSED ALL)H
        LOGIC 0 = PROVIDE ALL R/C ADDRESSED MESSAGES

3   PPLI LOOPBACK FILTER (LOOPBACK PPLI)
        LOGIC 0 = PROVIDE ALL PPLI LOOPBACK MESSAGES

4   TEST LOOPBACK FILTER (LOOPBACK TEST)
        LOGIC 0 = PROVIDE ALL TEST LOOPBACK MESSAGES

5   RTT LOOPBACK FILTER (LOOPBACK RTT)
        LOGIC 0 = PROVIDE ALL RTT LOOPBACK MESSAGES

6   ALL LOOPBACKS FILTER (LOOPBACK ALL)I
        LOGIC 0 = PROVIDE ALL LOOPBACK MESSAGES

7   VMF MESSAGE FILTER (VMF) - ARMY ONLY
        LOGIC 0 = PROVIDE ALL RECEIVED VMF MESSAGES

8   VOICE A MESSAGE FILTER (VA)
        LOGIC 0 = PROVIDE ALL RECEIVED VOICE A MESSAGES

H If this field is set to logic 0, bit 0 and bit 1 are ignored.

I If this field is set to logic 0, bits 3, 4 and 5 are ignored.

                                    INITIALIZATION BLOCK 23

BIT   DESIGNATION (CONTINUED)

9   VOICE B MESSAGE FILTER (VB)
           LOGIC 0 = PROVIDE ALL RECEIVED VOICE B MESSAGES

10   NON-VOICE FREE TEXT MESSAGE FILTER (FT)
           LOGIC 0 = PROVIDE ALL NON-VOICE RECEIVED FREE TEXT
                     MESSAGES

11   MESSAGE HEADER FILTER (HDR)H
           LOGIC 0 = PROVIDE RECEIVED MESSAGE HEADERS

12-15   NOT USED

H The received message header is recorded without the body of the
  message, if bit 11 is set to logic 1 (provide header) and the
  label/sublabel of the message filter is set to logic 1 (do not
  provide).

                FOR NAVY SHIPBOARD:
                For the Navy Shipboard unique values of TSRD
                Addressed/Loopback/Received Message Filter word, see
                Appendix VIII.

                FOR NAVY AIRBORNE:
                For the Navy Airborne unique values of TSRD
                Addressed/Loopback/Received Message Filter word, see
                Appendix VIII.

                                        INITIALIZATION BLOCK 23

30.4.9.2 Message Structure (32 Words). (Block 23, Words 5 through 32 and Block 24, Words 3 through 6).

MSB															LSB
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
					PL		NPG								

The bit designation shall be as follows:

BIT | DESIGNATION

0-8   NET PARTICIPATION GROUP (NPG)
        0 = NO STATEMENT - DEFAULT VALUE
        1-511 = ASSIGNED NPG

9-10   PACKING LIMITATION (PL)
        DEFINES THE PACKING THAT THE TERMINAL MAY USE FOR ANY MESSAGE IN THE NPG.

        BIT   10 • 9
               • • • • • • • •
                0 • 0   STANDARD
                0 • 1   STANDARD OR PACKED-2 DOUBLE
                  •   PULSE
                1 • 0   STANDARD OR PACKED-2 SINGLE PULSE
                1 • 1   STANDARD, PACKED-2 DP,
                  •   PACKED-2 SP OR PACKED-4

11-15   NOT USED

        FOR NAVY SHIPBOARD:
        For the Navy Shipboard unique values for the Message Structure word, see Appendix VIII.

        FOR NAVY AIRBORNE:
        For the Navy Airborne unique values for the Message Structure word, see Appendix VIII.

INITIALIZATION BLOCK 23

30.4.10 Initialization Data Block 24.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 24 (SEE 30.4.1.2)															
wd 3	MESSAGE STRUCTURE WORD 29															
wd 4	MESSAGE STRUCTURE WORD 30															
wd 5	MESSAGE STRUCTURE WORD 31															
wd 6	MESSAGE STRUCTURE WORD 32															
wd 7	TSRD UMF LABEL FILTER WORD 1 - ARMY ONLY															
wd 8	TSRD UMF LABEL FILTER WORD 2 - ARMY ONLY															
wd 9	TSRD UMF LABEL FILTER WORD 3 - ARMY ONLY															
wd 10	TSRD UMF LABEL FILTER WORD 4 - ARMY ONLY															
wd 11	TSRD UMF LABEL FILTER WORD 5 - ARMY ONLY															
wd 12	TSRD UMF LABEL FILTER WORD 6 - ARMY ONLY															
wd 13	TSRD UMF LABEL FILTER WORD 7 - ARMY ONLY															
wd 14	TSRD UMF LABEL FILTER WORD 8 - ARMY ONLY															
wd 15	MCE SECONDARY TNS ADDRESS WORD ARRAY															
wd 16	MCE SECONDARY TNS ADDRESS WORD ARRAY															
wd 17	MCE SECONDARY TNS ADDRESS WORD ARRAY															
wd 18	MCE SECONDARY TNS ADDRESS WORD ARRAY															
wd 19	MCE SECONDARY TNS ADDRESS WORD ARRAY															
wd 20	MCE SECONDARY TNS ADDRESS WORD ARRAY															
wd 21	MCE SECONDARY TNS ADDRESS WORD ARRAY															
wd 22	MCE SECONDARY TNS ADDRESS WORD ARRAY															
wd 23	FIGHTER NPG CVLL CONTROL WORD - F-15 ONLY															
wd 24	SPARE NPG CVLL CONTROL WORD - F-15 ONLY															
wd 25	FIGHTER/SPARE NPG CVLL DEFINITION WORD 1 - F-15 ONLY															
wd 26	FIGHTER/SPARE NPG CVLL DEFINITION WORD 2 - F-15 ONLY															
wd 27	FIGHTER/SPARE NPG CVLL DEFINITION WORD 3 - F-15 ONLY															
wd 28	FIGHTER/SPARE NPG CVLL DEFINITION WORD 4 - F-15 ONLY															
wd 29	FIGHTER/SPARE NPG CVLL DEFINITION WORD 5 - F-15 ONLY															
wd 30	FIGHTER/SPARE NPG CVLL DEFINITION WORD 6 - F-15 ONLY															
wd 31	FIGHTER/SPARE NPG CVLL DEFINITION WORD 7 - F-15 ONLY															
wd 32	FIGHTER/SPARE NPG CVLL DEFINITION WORD 8 - F-15 ONLY															

30.4.10.1 <u>TSRD UMF Label Filter Words</u>. (Block 24, Words 7 through 14)
The format of the TSRD UMF Label Filter Words shall be the same as the
Host UMF Label Filter Words specified in 30.2.5.3.

NOTE: BLOCK 24, WORDS 7-14 IS NOT USED BY NAVY SHIPBOARD (Appendix
       VIII) OR BY NAVY AIRBORNE(Appendix IX).

INITIALIZATION BLOCK 24

30.4.10.2 <u>Special Secondary TNs (MCE and Navy Ship Only)</u>. (Block 24, Words 15 through 22). If the bit for a given address field is LOGIC 1, the message requiring R/C is processed; otherwise the message is ignored. The format for the MCE Secondary Address Array provides a one-bit cell for each secondary address of 0 through 177 (octal), and shall be as follows:

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 15	17	16	15	14	13	12	11	10	7	6	5	4	3	2	1	0
wd 16	37	36	35	34	33	32	31	30	27	26	25	24	23	22	21	20
wd 17	57	56	55	54	53	52	51	50	47	46	45	44	43	42	41	40
wd 18	77	76	75	74	73	72	71	70	67	66	65	64	63	62	61	60
wd 19	117	116	115	114	113	112	111	110	107	106	105	104	103	102	101	100
wd 20	137	136	135	134	133	132	131	130	127	126	125	124	123	122	121	120
wd 21	157	156	155	154	153	152	151	150	147	146	145	144	143	142	141	140
wd 22	177	176	175	174	173	172	171	170	167	166	165	164	163	162	161	160

This matrix represents the octal range (000-177) of addresses. Each cell shall contain a LOGIC 1 when the specified addressee is to be processed; otherwise, it shall contain a LOGIC 0. The IU shall accept and provide any message which passes the label/sublabel filter, that is addressed to an MCE special secondary address when the bit corresponding to that address (1-177 octal) indicates process, and the host addressed/received message filter word of block 16, word 19, bit 1 of the initialization data block indicates provide all messages addressed to secondary Tns.

    NOTE: Addresses 77 and 177 (octal) are invalid special secondary
           addresses.

           FOR NAVY SHIPBOARD:
           For the Navy Shipboard unique values of the Special Secondary
           Tns word, see Appendix VIII.

           FOR NAVY AIRBORNE:
           For the Navy Airborne unique values of the Special Secondary
           TNs word, see Appendix VIII.   INITIALIZATION BLOCK 24

30.4.10.3 <u>Fighter NPG/Spare NPG CVLL Definition Words</u>. (Block 24, Words 23 through 32). F-15 ONLY

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 23	NOT USED			# NETS FIGHTER NPG (NNF)					NOT USED	STARTING NET FIGHTER NPG SNF						
wd 24	NOT USED			# NETS SPARE NPG (NNS)					NOT USED	STARTING NET SPARE NPG SNS						
wd 25	V	CVLL FOR NET SNF+1							V	CVLL FOR NET SNF						
wd 26	V	CVLL FOR NET SNF+3							V	CVLL FOR NET SNF+2						
. . .	. . .	. . .							. . .	. . .						
NOTE 1	V	CVLL FOR NET SNS							V	CVLL FOR NET SNS+NNF-1						
	V	CVLL FOR NET SNS+2							V	CVLL FOR NET SNS+1						
	V	CVLL FOR NET SNS+4							V	CVLL FOR NET SNS+3						
	. . .	. . .							. . .	. . .						
wd 32	V	CVLL FOR NET SNS+NNS-1							V	CVLL FOR NET SNS+NNS-2						

NOTE 1: A total of eight words are used to permit the association of up to 16 CVLLs for any combination of Fighter NPG and Spare NPG nets.
      2: V = Validity Bit

The bit designation shall be as follows:

<u>WORD 23</u>   <u>FIGHTER NPG CVLL CONTROL WORD</u>

   <u>BIT</u>   <u>DESIGNATION</u>

   0-6   STARTING NET NUMBER FOR THE FIGHTER NPG (30.2.5.4)

            RANGE: 0-126

   7   NOT USED

   8-12   NUMBER OF NETS FOR THE FIGHTER NPG FOR WHICH CVLL'S ARE
            ASSOCIATED
            RANGE: 0-16
            NETS MUST BE CONTIGUOUS, BUT NOT ALL NETS MUST
      HAVE A CVVL ASSOCIATED WITH IT.

                              INITIALIZATION BLOCK 24

WORD 23   FIGHTER NPG CVLL CONTROL WORD

    BIT   DESIGNATION

    13-15   NOT USED

  NOTE: NET NUMBER 127 SHOULD NOT BE USED FOR THE STARTING NET NUMBER.
         THE STARTING NET NUMBER PLUS THE NUMBER OF NETS SHOULD NOT
         EXCEED 126.

WORD 24   SPARE NPG CVLL CONTROL WORD

    BIT   DESIGNATION

    0-6   STARTING NET NUMBER FOR THE SPARE NPG (30.2.5.5)
              RANGE: 0-126

    7   NOT USED

    8-12   NUMBER OF NETS FOR THE SPARE NPG FOR WHICH CVLL'S ARE
              ASSOCIATED
              RANGE: 0-16
              NETS MUST BE CONTIGUOUS, BUT NOT ALL NETS MUST
    HAVE A CVVL ASSOCIATED WITH IT.

    13-15   NOT USED

  NOTE: NET NUMBER 127 SHOULD NOT BE USED FOR THE STARTING NET NUMBER.
         THE STARTING NET NUMBER PLUS THE NUMBER OF NETS SHOULD NOT
         EXCEED 126.

    WORD 25-32   FIGHTER/SPARE NPG CVLL DEFINITION WORDS

    BIT   DESIGNATION

    0-6   CVLL ASSOCIATED WITH NET BELONGING TO THIS FIELD
              RANGE: 1-127
              TSEC AND MSEC CVLL IF COMMOM VARIABLE MODE, MSEC
    CVLL IF PARTITIONED VARIABLE MODE
              NET IS DETERMINED FROM WORDS 23 AND 24.

    7   VALIDITY (V)
              LOGIC 1 = CONTENT OF BITS 0-6 IS A VALID CVLL
              LOGIC 0 = CONTENT OF BITS 0-6 IS NOT A VALID CVLL
              USE CVLLs IN SLOT ASSIGNMENTS.

    8-14   CVLL ASSOCIATED WITH NET BELONGING TO THIS FIELD
              RANGE: 1-127
              TSEC AND MSEC CVLL IF COMMOM VARIABLE MODE, MSEC
    CVLL IF PARTITIONED VARIABLE MODE
              NET IS DETERMINED FROM WORDS 23 AND 24

                              INITIALIZATION BLOCK 24

WORD 24 (CONTINUED)

BIT   DESIGNATION

15   VALIDITY (V)
           LOGIC 1 = CONTENT OF BITS 0-6 IS A VALID CVLL
           LOGIC 0 = CONTENT OF BITS 0-6 IS NOT A VALID CVLL
           USE CVLLs IN SLOT ASSIGNMENTS.

NOTES: 1. If CVLL = 0, use CVLLs in slot assignments.

       2. The net number belonging to word 25, bits 0-6 is the
       starting net for the fighter NPG. The net numbers belonging to
       the other "CVLL for net" fields, proceeding from the lower
       numbered bits to the higher numbered bits in a word and from
       the lower numbered words to the higher numbered words, are the
       numbers following consecutively from the starting net numbers
       the spare NPG follow in the same manner immediately after those
       for the fighter NPG. If there is no starting net given for the
       fighter NPG, the net number belonging to word 25, bits 0-6 is
       the starting net for the spare NPG.

                                  INITIALIZATION BLOCK 24

30.4.11 Initialization Data Block 25.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 25 (SEE 30.4.1.2)															
wd 3	UTM/UPS POSITION WORD 1															
wd 4	UTM/UPS POSITION WORD 2															
wd 5	UTM/UPS POSITION WORD 3															
wd 6	UTM/UPS POSITION WORD 4															
wd 7	UTM/UPS POSITION WORD 5															
wd 8	UTM/UPS POSITION WORD 6															
wd 9	UTM/UPS POSITION WORD 7															
wd 10	DISPLACED POSITION (LAT/LONG) WORD 1															
wd 11	DISPLACED POSITION (LAT/LONG) WORD 2															
wd 12	DISPLACED POSITION (LAT/LONG) WORD 3															
wd 13	DISPLACED POSITION (UTM/UPS) WORD 1															
wd 14	DISPLACED POSITION (UTM/UPS) WORD 2															
wd 15	DISPLACED POSITION (UTM/UPS) WORD 3															
wd 16	DISPLACED POSITION (UTM/UPS) WORD 4															
wd 17	DISPLACED POSITION (UTM/UPS) WORD 5															
wd 18	DISPLACED POSITION (UTM/UPS) WORD 6															
wd 19	DISPLACED POSITION (UTM/UPS) WORD 7															
wd 20	NCS ID															
wd 21	UTM OFFSET DATUM WORD 1															
wd 22	UTM OFFSET DATUM WORD 2															
wd 23	UTM OFFSET DATUM WORD 3															
wd 24	ARMY FUNCTION WORD 1															
wd 25	ARMY FUNCTION WORD 2															
wd 26	NOT USED															
wd 27	NOT USED															
wd 28	NOT USED															
wd 29	NOT USED															
wd 30	NOT USED															
wd 31	NOT USED															
wd 32	NOT USED															

30.4.11.1 <u>UTM/UPS Position Words</u>. (Block 25, Words 3 through 9).

	MSB 15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	LSB 0
wd 3	UTM/UPS CHARACTER 2								UTM/UPS CHARACTER 1							
wd 4	UTM/UPS CHARACTER 4								UTM/UPS CHARACTER 3							
wd 5	UTM/UPS CHARACTER 6								UTM/UPS CHARACTER 5							
wd 6	UTM/UPS CHARACTER 8								UTM/UPS CHARACTER 7							
wd 7	UTM/UPS CHARACTER 10								UTM/UPS CHARACTER 9							
wd 8	UTM/UPS CHARACTER 12								UTM/UPS CHARACTER 11							
wd 9									UTM/UPS CHARACTER 13							

The bit designation shall be as follows:

THE UTM/UPS CHARACTERS ARE CODED AS 8-BIT ASCII. (THE MSB OF EACH CHARACTER IS ALWAYS SET TO ONE)

   NOTE: BLOCK 25 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII) OR BY
          NAVY AIRBORNE(Appendix IX).

INITIALIZATION BLOCK 25

30.4.11.2 <u>Displaced Position</u> (LAT/LONG). (Block 25, Words 10 through 12).

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 10			MSB						LATITUDE							
wd 11	MSB		LONGITUDE			V	T				LATITUDE					LSB
wd 12					LONGITUDE									LSB		

(MSB above bits 15; LSB above bit 0)

The bit designation shall be as follows:

<u>WORD 10</u>

<u>BITS</u>	<u>DESIGNATION</u>
0-13	LATITUDE MOST SIGNIFICANT PORTION OF TWENTY BIT LATITUDE FIELD. REMAINING SIX BITS ARE IN WORD 2. THE LATITUDE FIELD IS A TWO'S COMPLEMENT INTEGER
14-15	NOT USED

<u>WORD 11</u>

<u>BITS</u>	<u>DESIGNATION</u>
0-5	LATITUDE LEAST SIGNIFICANT PORTION OF TWENTY BIT LATITUDE FIELD. LSB: 90/524287 DEGREES
6-7	NOT USED
8	TYPE OF COORDINATES (T) LOGIC 1 = LAT/LONG LOGIC 0 = MGR
9	VALIDITY (V) LOGIC 0 = DISPLACED POSITION INVALID LOGIC 1 = DISPLACED POSITION VALID
10-15	LONGITUDE MOST SIGNIFICANT PORTION OF TWENTY ONE BIT LONGITUDE FIELD. REMAINING FIFTEEN BITS ARE IN WORD 3, THE LONGITUDE FIELD IS A TWO'S COMPLEMENT INTEGER

INITIALIZATION BLOCK 25

WORD 12

BITS   DESIGNATION

0   NOT USED

1-15   LONGITUDE
        LEAST SIGNIFICANT PORTION OF TWENTY ONE BIT LONGITUDE
        FIELD.
        LSB: 180/1048575 DEGREES

INITIALIZATION BLOCK 25

30.4.11.3 <u>Displaced Position (UTM/UPS)</u>. (Block 25, Words 13 through 19).

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 13	UTM/UPS CHARACTER 2								UTM/UPS CHARACTER 1							
wd 14	UTM/UPS CHARACTER 4								UTM/UPS CHARACTER 3							
wd 15	UTM/UPS CHARACTER 6								UTM/UPS CHARACTER 5							
wd 16	UTM/UPS CHARACTER 8								UTM/UPS CHARACTER 7							
wd 17	UTM/UPS CHARACTER 10								UTM/UPS CHARACTER 9							
wd 18	UTM/UPS CHARACTER 12								UTM/UPS CHARACTER 11							
wd 19									UTM/UPS CHARACTER 13							

MSB is at bit 15, LSB is at bit 0.

The bit designation shall be as follows:

THE UTM/UPS CHARACTERS ARE CODED AS 8-BIT ASCII. (THE MSB OF EACH CHARACTER IS ALWAYS SET TO ONE)

INITIALIZATION BLOCK 25

30.4.11.4 <u>NCS ID</u>. (Block 25, Word 20).

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 20		NCS ID														

The bit designation shall be as follows:

BIT	DESIGNATION

0-14   NCS ID CONSISTS OF FIVE OCTAL DIGITS (00000 TO 77777)

```
            D            D          D          D          D
            4            3          2          1          0
       ••••••••••  •••••••••  •••••••  •••••••  •••••••
BITS   14,13,12    11,10,9    8,7,6    5,4,3    2,1,0
```

15   NOT USED

30.4.11.5 <u>UTM Offset Datum</u>. (Block 25, Words 21 through 23).

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 21	MSB						DELTA X									LSB
wd 22	MSB						DELTA Y									LSB
wd 23	MSB						DELTA Z									LSB

The bit designation shall be as follows:

BIT	DESIGNATION

0-15   16 BITS OF DELTA UTM OFFSET DATUM
        NEGATIVE QUANTITIES SHALL BE IN TWO'S COMPLEMENT NOTATION
        (MEASURED FROM WGS-72 ORIGIN TO ORIGIN OF REFERENCED
        SPHEROID)
        LSB: 1 METER

INITIALIZATION BLOCK 25

30.4.11.6 <u>Army Function Word 1</u>. (Block 25, Word 24).

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 24	C O M M	C O N N	O D S	OVER ALL RECURRENCE RATE							U T M I	N C S	COMMUNITY DESIGNATOR			

The bit designation shall be as follows:

<u>BIT</u>	<u>DESIGNATION</u>
0-3	COMMUNITY DESIGNATOR RANGE: 0-15
4	NCS INDICATOR (NCS) LOGIC 1 = HOST IS A NCS LOGIC 0 = HOST IS NOT A NCS
5	UTM/UPS CONVERSION INHIBIT (UTMI) LOGIC 1 = INHIBIT LAT/LONG TO UTM/UPS CONVERSION LOGIC 0 = INHIBIT OFF (CONVERT LAT/LONG TO UTM/UPS)
6-8	NOT USED
9-12	OVERALL RECURRENCE RATE RANGE: 0-15
13	OFFSET DATUM SWITCH LOGIC 1 = USE HOST SUPPLIED OFFSET DATUM LOGIC 0 = USE STORED OFFSET DATUM
14	CONNECTIVITY MONITORING ENABLE (CONN) LOGIC 1 = PERFORM CONNECTIVITY MONITORING
15	COMMUNICANT MONITORING ENABLE (COMM) LOGIC 1 = PERFORM COMMUNICANT MONITORING

INITIALIZATION BLOCK 25

30.4.11.7 Army Function Word 2. (Block 25, Word 25).

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 25							DATUM NUMBER						NCS RELAY LEVEL			

The bit designation shall be as follows:

BIT	DESIGNATION
0-3	NCS RELAY LEVEL RANGE: 0-15
4-9	DATUM NUMBER RANGE: 0-63

        0   WGS-72, OFFSETS=0
        1   INTERNATIONAL, OFFSETS=0
        2   AUSTRALIAN NATIONAL, OFFSETS=0

        3   CLARK 1866, OFFSETS=0
        4   CLARK 1880, OFFSETS=0
        5   EVEREST, OFFSETS=0

        6   BESSEL, OFFSETS=0
        7   NORTH AMERICAN 1927
        8   OLD HAWAIIAN

        9   QORNOQ
        10   HJORSEY 1955
        11   PROVISIONAL S. AMERICAN 1956

        12   CORREGO ALEGRE
        13   CHUA ASTRO
        14   CAMPO INCHAUSPE

        15   YACARE
        16   EUROPEAN
        17   ORDNANCE SURVEY OF GREAT BRITAIN 1936

        18   IRELAND 1965
        19   MERCHICH
        20   VOIROL

        21   ADINDAN
        22   SIERRA LEONE 1960
        23   LIBERIA 1964

        24   GHANA
        25   NIGERIA
        26   ARC 1950

                                INITIALIZATION BLOCK 25

BIT   DESIGNATION (CONTINUED)

4-9   DATUM NUMBER

       27   TANANARIVE OBSV. 1925
       28   WORLD GEODETIC SYSTEM (SAME AS FOR 0)
       29   HERAT NORTH

       30   INDIAN
       31   TOKYO
       32   HU.-TZU-SHAN

       33   LUZON
       34   KERTAU
       35   TIMBALAI

       36   DJAKARTA
       37   BUKIT RIMPAH
       38   G. SERINDUNG

       39   G. SEGARA
       40   MONTJONG LOWE
       41   AUSTRALIAN GEODETIC

       42   GEODETIC DATUM 1949
       43   GUAM 1963
       44   INVALID - DO NOT USE

       45   CAMP AREA ASTRO.
       46   NARPARIMA
       47   "WEST AFRICA"

       48   "SOCOTRA"
       49   "TIMOR"
       50   "WEST NEW GUINEA"

       51-63   NOT USED

INITIALIZATION BLOCK 25

30.4.12 Initialization Data Blocks 26 through 43. - ARMY ONLY

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCKS (SEE 30.4.1.2)															
wd 3	UNIT DESIGNATOR/DTN WORD 1															
wd 4	UNIT DESIGNATOR/DTN WORD 2															
wd 5	UNIT DESIGNATOR/DTN WORD 3															
wd 6	UNIT DESIGNATOR/DTN WORD 4															
wd 7	UNIT DESIGNATOR/DTN WORD 1															
wd 8	UNIT DESIGNATOR/DTN WORD 2															
wd 9	UNIT DESIGNATOR/DTN WORD 3															
wd 10	UNIT DESIGNATOR/DTN WORD 4															
wd 11	UNIT DESIGNATOR/DTN WORD 1															
wd 12	UNIT DESIGNATOR/DTN WORD 2															
wd 13	UNIT DESIGNATOR/DTN WORD 3															
wd 14	UNIT DESIGNATOR/DTN WORD 4															
wd 15	UNIT DESIGNATOR/DTN WORD 1															
wd 16	UNIT DESIGNATOR/DTN WORD 2															
wd 17	UNIT DESIGNATOR/DTN WORD 3															
wd 18	UNIT DESIGNATOR/DTN WORD 4															
wd 19	UNIT DESIGNATOR/DTN WORD 1															
wd 20	UNIT DESIGNATOR/DTN WORD 2															
wd 21	UNIT DESIGNATOR/DTN WORD 3															
wd 22	UNIT DESIGNATOR/DTN WORD 4															
wd 23	UNIT DESIGNATOR/DTN WORD 1															
wd 24	UNIT DESIGNATOR/DTN WORD 2															
wd 25	UNIT DESIGNATOR/DTN WORD 3															
wd 26	UNIT DESIGNATOR/DTN WORD 4															
wd 27	UNIT DESIGNATOR/DTN WORD 1															
wd 28	UNIT DESIGNATOR/DTN WORD 2															
wd 29	UNIT DESIGNATOR/DTN WORD 3															
wd 30	UNIT DESIGNATOR/DTN WORD 4															
wd 31	NOT USED															
wd 32	NOT USED															

ARMY - UP TO 18 BLOCKS

30.4.12.1 Unit Designator/DTN Cross Reference Words. (Blocks 26 through 43).

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 1	A/D	DTN														
wd 2	CHARACTER 3					CHARACTER 2						CHARACTER 1				
wd 3	CH 6			CHARACTER 5					CHARACTER 4						CH 3	
wd 4	CHARACTER 8						CHARACTER 7					CHARACTER 6				

The bit designation shall be as follows:

WORD 1

BIT   DESIGNATION

0-14   DESTINATION TRACK NUMBER (DTN)
           CONSISTS OF FIVE OCTAL DIGITS (00000 TO 77777)

                   D   D   D   D   D
                   4   3   2   1   0
           ●●●●●●●●● ●●●●●●●● ●●●●●●● ●●●●●●● ●●●●●●●
           BITS 14,13,12 11,10,9   8,7,6   5,4,3   2,1,0
15   ADD/DELETE (A/D)
           LOGIC 1 = ADD UNIT DESIGNATOR/DTN
           LOGIC 0 = DELETE UNIT DESIGNATOR/DTN

WORDS 2 THOUGH 4

    EIGHT CHARACTER (6 BITS PER CHARACTER) UNIT DESIGNATOR (6 BIT ASCII)

INITIALIZATION BLOCK 26-43

30.4.13 Initialization Data Block 44.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 44 (SEE 30.4.1.2)															
wd 3	TSR POOL 0, CONTROL WORD 1															
wd 4	TSR POOL 0, CONTROL WORD 2															
wd 5	TSR POOL 0, CONTROL WORD 3															
wd 6	TSR POOL 1, CONTROL WORD 1															
wd 7	TSR POOL 1, CONTROL WORD 2															
wd 8	TSR POOL 1, CONTROL WORD 3															
wd 9	TSR POOL 2, CONTROL WORD 1															
wd 10	TSR POOL 2, CONTROL WORD 2															
wd 11	TSR POOL 2, CONTROL WORD 3															
wd 12	TSR POOL 3, CONTROL WORD 1															
wd 13	TSR POOL 3, CONTROL WORD 2															
wd 14	TSR POOL 3, CONTROL WORD 3															
wd 15	TSR POOL 4, CONTROL WORD 1															
wd 16	TSR POOL 4, CONTROL WORD 2															
wd 17	TSR POOL 4, CONTROL WORD 3															
wd 18	TSR POOL 5, CONTROL WORD 1															
wd 19	TSR POOL 5, CONTROL WORD 2															
wd 20	TSR POOL 5, CONTROL WORD 3															
wd 21	TSR POOL 6, CONTROL WORD 1															
wd 22	TSR POOL 6, CONTROL WORD 2															
wd 23	TSR POOL 6, CONTROL WORD 3															
wd 24	TSR POOL 7, CONTROL WORD 1															
wd 25	TSR POOL 7, CONTROL WORD 2															
wd 26	TSR POOL 7, CONTROL WORD 3															
wd 27	NOT USED															
wd 28	NOT USED															
wd 29	NOT USED															
wd 30	NOT USED															
wd 31	NOT USED															
wd 32	NOT USED															

NAVY ONLY – INITIALIZATION BLOCK 44

30.4.13.1 <u>TSR Control Data (Block 44, Words 3-26)</u>. These words specify the TSR control data for TSR pools 0 - 7. The control data for each pool consists of 3 words. The Operate/Suspend Parameter (Word 1, bit 14) and the pool capacity request fields (Word 3) can also be specified by TIM 16 (See 80.1.4.6.6.9). TIM 16 data takes precedence if it is received by the SICP concurrently (in the same slot) with Initialization Block 44 data.

During the start-up load or an initialization restart (default or current) load, the terminal will accept and store all the data in these words as given by the Host via TIM 1 or TIM 16 (see 80.1.4.6.6.9). TIM 16 data that is entered concurrently with Initialization Block 44 data will overwrite that data, if it is different. During the load, the Data Change Validity (DCV) bit, in Control Word 1, is ignored by the Terminal. After the Host has submitted the entire load and Initialization Status becomes "Load Complete-Valid data" (see 80.1.4.7.1.3 AND 80.1.4.8.2.1.2.4), the SICP will perform TSR start-up validity checking.

Start-up Validity checking will report, for each pool, one at a time, whether or not the data in the load would pass TSR validity checking if the operate bit for the pool was in the load. This validity checking is designed to provide to the Host which TSR pools, if any, could be successfully activated by the Host. Start-up validity checking ignores the setting of the operate bits and is identical to the TSR validity checking described in 60.25.1 except that it ignores the quiescent bits (which are relevant for NPG 9, the control channel). The results for start-up validity checking are reported in TOM 1, word 8 (80.1.4.8.2.1.2.8) and Status Block 1, word 15 (60.5.9).

After finishing start-up validity checking, the SICP will check the operate/suspend field for each pool. If exactly one is set to "operate" the SICP will perform TSR validity checking (see 40.5.25.1) for the pool and report pool status in Status Block 30 (see 40.5.25) and TOM 1, words 21-22 (see 80.1.4.8.2.1.2.16). The results of this validity checking will match those of start-up validity checking, if the TSR NPG is not 9. If more than one operate/suspend bit is set to "operate", the SICP will perform TSR validity checking on the lowest numbered such pool. If this validity checking is successful, the SICP will report pool status for the pool, as described above, and set the "operate/suspend" bit(s) to "suspend" for all higher numbered pools. If this validity checking is not successful, the SICP will perform TSR validity checking for the next highest numbered pool with the operate/suspend field set to "operate", if one exists, and repeat the process. This continues until a pool passes TSR validity checking or all the operate/suspend fields have been processed.

NAVY ONLY - INITIALIZATION BLOCK 44

While Initialization Status is "Load Complete-Valid Data", the Host can input data changes to the pools. During this period, the Operate/Suspend field is always considered valid by the Terminal. The validity of the other fields is as follows:

    a. If the Terminal was already "Active" (TSR Pool State equal to 2, 3 or 4 - See Status Block 30) on the pool prior to the data change, the DCV bit for the pool (Control Word 1, bit 15) determines the validity of Control Word 3. The Terminal shall ignore bits 0 to 13 of Control Word 1 and all of Control Word 2.

    b. If the Terminal was suspended (TSR Pool State equal to 0) or "Inactive" (TSR Pool State equal to 1) on the pool prior to the data change, the DCV bit applies to all data in the three control words.

    When active on a pool, the Host should use Initialization Block 44 (See "a" above) or TIM 16 (See 80.1.4.6.6.9) but not both to update the pool capacity request fields.

During the data change, if the Host specifies the Operate/Suspend field as "operate" for one pool while the Terminal is already active on another pool, the SICP will ignore the operate request for the new pool and will issue a data conflict.

If a data change specifies the operate/suspend bit as "operate" for a pool and the terminal is not active on another pool at that time, the SICP will perform TSR validity checking for that pool using all current initialization data if the TSR Pool State, prior to the data change, was suspended (TSR Pool State equal to 0) or inactive (TSR Pool State equal to 1).

If the Host wants to change TSR operation from one pool to another, the Host must input two data changes: one to suspend the first pool and the other to operate on the second pool.

NAVY ONLY - INITIALIZATION BLOCK 44

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
CNTRL WD 1	D C V	O / S	BBRRM				H N M	REALLOCATION PERIOD OFFSET					REALLOCATION PERIOD LENGTH			
CNTRL WD 2	C M	D M	D L O		TABLE POSITION							HOP COUNT THRESHOLD			DELETION THRESHOLD		
CNTRL WD 3	NUMBER OF MESSAGES											AVERAGE NUMBER OF WORDS PER MESSAGE				

Control Word 1

BITS

0-3   REALLOCATION PERIOD LENGTH
          LSB: 6 SECONDS
          RANGE: 0-90 SECONDS
          VALID VALUES: 6 TO 48 SECONDS, EXCLUDING 42
          DEFAULT: 12 SECONDS

4-8   REALLOCATION PERIOD OFFSET
          THE STARTING TIME OF THE REALLOCATION PERIOD RELATIVE
          TO THE BEGINNING OF THE JTIDS DAY.
          LSB: 1.5 SECONDS
          RANGE: 0 TO 46.5 SECONDS
          DEFAULT: 0 SECONDS

   NOTE: IF REALLOCATION PERIOD OFFSET (RPO) ∃ REALLOCATION PERIOD
          LENGTH (RPL), THE VALUE USED WILL BE RPO MODULO RPL.

9   HOST NET MANAGER (HNM)
          IF CENTRALIZED MODE (CONTROL WORD 2, BIT 15) IS
          ENABLED, THIS VARIABLE DESCRIBES THE HOST STATUS FOR
          THE POOL.
          LOGIC 0 = THE HOST IS NOT THE NET MANAGER FOR THE POOL.
                    - DEFAULT
          LOGIC 1 = THE HOST IS THE NET MANAGER FOR THE POOL.
10   RESERVED FOR FUTURE USE

11-13   BASIC BLOCK RECURRENCE RATE MODIFIER (BBRRM)
          THIS VARIABLE IS USED IN DETERMINING THE BASIC BLOCK
          RECURRENCE RATE OF THE POOL (SEE 3.2.9.2.2 OF
          Y240M798A0100 FOR NAVY AIR ONLY AND Y240M822A0100 FOR
          NAVY SHIP ONLY).
          RANGE: 0 TO 7
          DEFAULT: 0

                              NAVY ONLY - INITIALIZATION BLOCK 44

BIT   DESIGNTION

14   OPERATE/SUSPEND PARAMETER (O/S)
           LOGIC 0 = SUSPEND - DEFAULT
           LOGIC 1 = OPERATE

NOTES: 1) ONLY ONE POOL IS ALLOWED TO OPERATE AT A TIME.

       2) THIS VARIABLE CAN ALSO BE SET VIA TIM 16 (SEE 80.1.4.6.6.9).

15   DATA CHANGE VALIDITY (DCV)
           LOGIC 0 = NOT VALID
           LOGIC 1 = VALID

NOTE: THIS BIT WILL BE USED BY THE HOST TO CONTROL THE PROCESSING OF
       THE THREE CONTROL WORDS WHEN THEY ARE INPUT AS AN INITIALIZATION
       DATA CHANGE (SEE ABOVE). THE VALUE OF THIS VARIABLE IN THE
       DEFAULTS FILE WILL BE 0.

CONTROL WORD 2

    BITS

    0-2   DELETION THRESHOLD
               THE MAXIMUM AGE OF A TSR POOL PARTICIPANT'S DATA, IN UNITS
               OF REALLOCATION PERIODS, FOR WHICH THE DATA WILL BE
               CONSIDERED VALID AND PROCESSED BY THE TERMINAL.
               RANGE: 0 TO 7
               DEFAULT: 7

NOTE: IF DELETION THRESHOLD = 0 AND CENTRALIZED MODE IS DISABLED, THE
       TERMINAL MUST HAVE ACCESS 18 SLOTS PRIOR TO THE FREEZE POINT OF
       THE REALLOCATION PERIOD TO ACHIEVE ENTRY INTO THE TSR POOL.

    3-5   HOP COUNT THRESHOLD
               THE MAXIMUM NUMBER OF TRANSMISSION HOPS THROUGH WHICH A TSR
               PARTICIPANT'S DATA WILL BE DISSEMINATED.
               RANGE: 0 TO 7
               DEFAULT: 4

NOTE: IF THE HOP COUNT THRESHOLD IS 7, THE TSR PARTICIPANT'S DATA WILL
       ALWAYS BE DISSEMINATED REGARDLESS OF ITS NUMBER OF TRANSMISSION
       HOPS.

    6-11   TABLE POSITION
               THE TABLE POSITION INDEX OF THE TERMINAL IF THE
               DISSEMINATION MODE (BIT 14 OF THIS WORD) IS SET TO "TABLE
               MODE".
               RANGE: 0 TO 63
               DEFAULT: 0

                    NAVY ONLY - INITIALIZATION BLOCK 44

BIT	DESIGNATION

12   RESERVED FOR FUTURE USE

13   DEMAND LIMIT OVERRIDE (DLO)
            IF THE TERMINAL IS DEAF (IT HAS VALID DATA FOR NO OTHER
            PARTICIPANTS ON THE TSR POOL), THIS VARIABLE SPECIFIES THE
            MAXIMUM PERCENTAGE OF THE REALLOCATION POOL THAT THE
            TERMINAL CAN REQUEST.
            LOGIC 0 = 22 PERCENT - DEFAULT
            LOGIC 1 = 60 PERCENT

14   POOL CAPACITY REQUEST DISSEMINATION MODE (DM)
            THE METHOD TO BE USED TO DISSEMINATE THE TERMINAL'S TSR
            DATA.
            LOGIC 0 = STN MODE - DEFAULT
            LOGIC 1 = TABLE MODE

15   CENTRALIZED MODE
            LOGIC 0 = DISABLED - DEFAULT
            LOGIC 1 = ENABLED

CONTROL WORD 3

BITS

0-4   CODED VALUE FOR AVERAGE NUMBER OF WORDS PER MESSAGE.
            THE PREDICTED AVERAGE NUMBER OF TADIL J WORDS PER MESSAGE
            FOR TRANSMISSION DURING THE NEXT AND, UNTIL CHANGED BY THE
            HOST, SUBSEQUENT REALLOCATION PERIODS ON THE TSR POOL.
            RANGE: 0 TO 31 (1 TO 6 WORDS)
            DEFAULT: 0 (1 WORD)

            THE CODED VALUE = $(N-1)*31/5$ WHEN N IS THE RAW VALUE (FOR
            THE AVERAGE NUMBER OF WORDS) OR, EQUIVALENTLY, $N = 1 + (CODED VALUE)*5/31$.

5-15   NUMBER OF MESSAGES
            THE PREDICTED NUMBER OF TADIL J MESSAGES TO BE TRANSMITTED
            DURING THE NEXT AND, UNTIL CHANGED BY THE HOST, SUBSEQUENT
            REALLOCATION PERIODS.
            RANGE: 0 TO 2047
            DEFAULT: 0

    NOTE: 1) THE VARIABLES OF CONTROL WORD 3 CAN ALSO BE SET VIA TIM 16
           (SEE 80.1.4.8.1.6.2.13 AND 80.1.4.6.6.9).

           2) THESE VALUES CAN BE UPDATED BY THE HOST AT A RATE OF UP TO
           ONCE PER TWO SECONDS.

                        NAVY ONLY - INITIALIZATION BLOCK 44

30.4.14 Initialization Data Blocks 45 through 54. – ARMY ONLY

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCKS (SEE 30.4.1.2)															
wd 3	NEEDLINE DTN WORD 1															
wd 4	NEEDLINE DTN WORD 2															
wd 5	NEEDLINE DTN WORD 3															
wd 6	NEEDLINE DTN WORD 4															
wd 7	NEEDLINE DTN WORD 5															
wd 8	NEEDLINE DTN WORD 6															
wd 9	NEEDLINE DTN WORD 7															
wd 10	NEEDLINE DTN WORD 8															
wd 11	NEEDLINE DTN WORD 9															
wd 12	NEEDLINE DTN WORD 10															
wd 13	NEEDLINE DTN WORD 1															
wd 14	NEEDLINE DTN WORD 2															
wd 15	NEEDLINE DTN WORD 3															
wd 16	NEEDLINE DTN WORD 4															
wd 17	NEEDLINE DTN WORD 5															
wd 18	NEEDLINE DTN WORD 6															
wd 19	NEEDLINE DTN WORD 7															
wd 20	NEEDLINE DTN WORD 8															
wd 21	NEEDLINE DTN WORD 9															
wd 22	NEEDLINE DTN WORD 10															
wd 23	NEEDLINE DTN WORD 1															
wd 24	NEEDLINE DTN WORD 2															
wd 25	NEEDLINE DTN WORD 3															
wd 26	NEEDLINE DTN WORD 4															
wd 27	NEEDLINE DTN WORD 5															
wd 28	NEEDLINE DTN WORD 6															
wd 29	NEEDLINE DTN WORD 7															
wd 30	NEEDLINE DTN WORD 8															
wd 31	NEEDLINE DTN WORD 9															
wd 32	NEEDLINE DTN WORD 10															

ARMY – UP TO 10 BLOCKS

30.4.14.1 <u>Needline/Destination Track Numbers</u>. (Blocks 45 through 54).

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	2-W PME						A/D	NNPG								
wd 2		DTN1														
wd 3		DNT2														
wd 4		DTN3														
wd 5		DTN4														
wd 6		DTN5														
wd 7		DTN6														
wd 8		DTN7														
wd 9		DTN8														
wd 10								RESPONSE TIME								

The bit designation shall be as follows:

<u>WORD 1</u>

BIT	DESIGNATION
0-8	NEEDLINE NET PARTICIPATION GROUP (NNPG) RANGE: 0-511 LOGIC 0 = NO STATEMENT
9	ADD/DELETE (A/D) LOGIC 1 = ADD TO LIST LOGIC 0 = DELETE FROM LIST
10-14	NOT USED
15	TWO-WAY PATH MONITORING ENABLE (2-W PME) LOGIC 1 = PERFORM TWO-WAY PATH MONITORING

INITIALIZATION BLOCKS 45-54

WORDS 2 THROUGH 9

BIT   DESIGNATION

0-14   DESTINATION TRACK NUMBER (DTN)
            CONSISTS OF FIVE OCTAL DIGITS (00000 TO 77777)

```
              D          D          D          D          D
              4          3          2          1          0
            ••••••••• ••••••••• ••••••• ••••••• •••••••
            BITS  14,13,12  11,10,9   8,7,6   5,4,3   2,1,0
```
15   NOT USED

WORD 10

BIT   DESIGNATION

0-8   RESPONSE TIME ON MESSAGES (RESPONSE TIME)
            RANGE: 0-511 SECONDS

9-15   NOT USED

INITIALIZATION BLOCKS 45-54

30.4.15 Initialization Data Block 55. – ARMY ONLY

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCKS (SEE 30.4.1.2)															
wd 3	NEEDLINE DTN WORD 1															
wd 4	NEEDLINE DTN WORD 2															
wd 5	NEEDLINE DTN WORD 3															
wd 6	NEEDLINE DTN WORD 4															
wd 7	NEEDLINE DTN WORD 5															
wd 8	NEEDLINE DTN WORD 6															
wd 9	NEEDLINE DTN WORD 7															
wd 10	NEEDLINE DTN WORD 8															
wd 11	NEEDLINE DTN WORD 9															
wd 12	NEEDLINE DTN WORD 10															
wd 13	NEEDLINE DTN WORD 1															
wd 14	NEEDLINE DTN WORD 2															
wd 15	NEEDLINE DTN WORD 3															
wd 16	NEEDLINE DTN WORD 4															
wd 17	NEEDLINE DTN WORD 5															
wd 18	NEEDLINE DTN WORD 6															
wd 19	NEEDLINE DTN WORD 7															
wd 20	NEEDLINE DTN WORD 8															
wd 21	NEEDLINE DTN WORD 9															
wd 22	NEEDLINE DTN WORD 10															
wd 23	NOT USED															
wd 24	NOT USED															
wd 25	NOT USED															
wd 26	NOT USED															
wd 27	NOT USED															
wd 28	NOT USED															
wd 29	NOT USED															
wd 30	NOT USED															
wd 31	NOT USED															
wd 32	NOT USED															

ARMY – UP TO 10 BLOCKS

30.4.15.1 <u>Needline/Destination Track Numbers</u>. (Block 55, Words 3 through 22). See 30.4.14.1

 FOR NAVY SHIPBOARD:
 For the Navy Shipboard unique values for Initialization Block 55, see Appendix VIII.

 FOR NAVY AIRBORNE:
 For the Navy Airborne unique values for Initialization Block 55, see Appendix VIII.

INITIALIZATION BLOCK 55

30.4.16 <u>Initialization Data Block 56</u>.

      FOR NAVY SHIPBOARD:
For the Navy Shipboard unique values for Initialization Block 56, see Appendix VIII.

      FOR NAVY AIRBORNE:
For the Navy Airborne unique values for Initialization Block 56, see Appendix VIII.

      FOR MCE:
For the MCE unique values for Initialization Block 56, see Appendix XI.

      FOR E-3:
For the E-3 unique values for Initialization Block 56, see 100.1.2.6.

INITIALIZATION BLOCK 56

30.4.17 <u>Initialization Data Block 57</u>.

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique values for Initialization Block 57,
see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique values for Initialization Block 57,
see 80.1.2.15.

FOR E-3:
For the E-3 unique values for Initialization Block 57, see
100.1.2.6.1.

INITIALIZATION BLOCK 57

30.4.18 <u>Initialization Data Block 58</u>.

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique values for Initialization Block 58,
see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique values for Initialization Block 58,
see 80.1.2.16.

FOR E-3:
For the E-3 unique values for Initialization Block 58, see
100.1.2.6.2.

INITIALIZATION BLOCK 58

30.4.19 Initialization Data Block 59. NAVY SHIP ONLY

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 59 (SEE 30.4.1.2)															
wd 3	X_b ANTENNA A															
wd 4	Y_b ANTENNA A															
wd 5	Z_b ANTENNA A															
wd 6	X_b ANTENNA B															
wd 7	Y_b ANTENNA B															
wd 8	Z_b ANTENNA B															
wd 9	X_b INS FORE OR #1															
wd 10	Y_b INS FORE OR #1															
wd 11	Z_b INS FORE OR #1															
wd 12	X_b INS AFT OR #2															
wd 13	Y_b INS AFT OR #2															
wd 14	Z_b INS AFT OR #2															
wd 15	X_b EM LOG (RESERVED FOR FUTURE USE)															
wd 16	Y_b EM LOG (RESERVED FOR FUTURE USE)															
wd 17	Z_b EM LOG (RESERVED FOR FUTURE USE)															
wd 18	h_b b-FRAME HEIGHT															
wd 19	NOT USED															
wd 20	NOT USED															
wd 21	NOT USED															
wd 22	NOT USED															
wd 23	NOT USED															
wd 24	NOT USED															
wd 25	NOT USED															
wd 26	NOT USED															
wd 27	NOT USED															
wd 28	NOT USED															
wd 29	NOT USED															
wd 30	NOT USED															
wd 31	NOT USED															
wd 32	NOT USED															

NAVY ONLY – INITIALIZATION BLOCK 59

30.4.19.1 <u>Body Coordinates of Navigation Systems</u> (X_b, Y_b, Z_b). (Block 59, Words 3-5, 6-8, 9-11, 12-14, 15-17).

<div align="center">NAVY SHIP ONLY</div>

MSB															LSB
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
X_b															
Y_b															
Z_b															

The bit designation shall be as follows:

<u>BIT</u>   <u>DESIGNATION</u>
<u>WORDS 3-5,</u>   <u>Body Coordinates of Navigation Systems</u> - <u>NAVY SHIP</u>
<u>6-8, 9-11,</u>   <u>ONLY</u>
<u>12-14, 15-17</u>

DESCRIPTION: 16-bit two's complement
MSB: -2^{12}
LSB: 2^{-3}
UNITS: feet
RANGE: $- 4096$ to $+ 4096 -$ LSB
DEFINITION: (X_b, Y_b, Z_b) define the location of the various shipboard navigation-related systems in the ship's body coordinate frame (b-frame). The X_b-axis lies parallel to the ship's centerline, positive toward the bow. The Y_b-axis is directed to the port side. The Z_b-axis is directed out the top of the ship. The b-frame is centered at one of the primary navigation systems (WSN-5 or CVNS).
DEFAULTS: 0

NOTE: EM LOG BODY COORDINATES ARE NOT CURRENTLY USED, BUT ARE DEFINED AND ARE RESERVED FOR FUTURE USE.

30.4.19.2 <u>b-Frame Height (h_b)</u>. (Block 59, Word 18). Description and format are the same as Body Coordinates of Navigation Systems.

<div align="center">NAVY SHIP ONLY</div>

DEFINITION: Height of Ship's body coordinate frame (b-frame) above mean sea level.
DEFAULT: 0

<div align="center">NAVY ONLY - INITIALIZATION BLOCK 59</div>

30.4.20 Initialization Data Block 60.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 60 (SEE 30.4.1.2)															
wd 3	IJMS INITIAL ENTRY FUNCTION WORD															
wd 4	IJMS ALTERNATE SOURCE TRACK NUMBER WORD															
wd 5	IJMS HOST MESSAGE FILTER WORD 1															
wd 6	IJMS HOST MESSAGE FILTER WORD 2															
wd 7	IJMS HOST MESSAGE FILTER WORD 3															
wd 8	IJMS HOST MESSAGE FILTER WORD 4															
wd 9	IJMS HOST MESSAGE FILTER WORD 5															
wd 10	IJMS HOST MESSAGE FILTER WORD 6															
wd 11	IJMS HOST MESSAGE FILTER WORD 7															
wd 12	IJMS HOST MESSAGE FILTER WORD 8															
wd 13	IJMS HOST MESSAGE FILTER WORD 9															
wd 14	IJMS HOST MESSAGE FILTER WORD 10															
wd 15	IJMS HOST MESSAGE FILTER WORD 11															
wd 16	IJMS HOST MESSAGE FILTER WORD 12															
wd 17	IJMS HOST MESSAGE FILTER WORD 13															
wd 18	IJMS HOST MESSAGE FILTER WORD 14															
wd 19	IJMS HOST MESSAGE FILTER WORD 15															
wd 20	IJMS HOST MESSAGE FILTER WORD 16															
wd 21	IJMS HOST ADDRESSED MESSAGE FILTER WORD															
wd 22	IJMS TSRD MESSAGE FILTER WORD 1															
wd 23	IJMS TSRD MESSAGE FILTER WORD 2															
wd 24	IJMS TSRD MESSAGE FILTER WORD 3															
wd 25	IJMS TSRD MESSAGE FILTER WORD 4															
wd 26	IJMS TSRD MESSAGE FILTER WORD 5															
wd 27	IJMS TSRD MESSAGE FILTER WORD 6															
wd 28	IJMS TSRD MESSAGE FILTER WORD 7															
wd 29	IJMS TSRD MESSAGE FILTER WORD 8															
wd 30	IJMS TSRD MESSAGE FILTER WORD 9															
wd 31	IJMS TSRD MESSAGE FILTER WORD 10															
wd 32	IJMS TSRD MESSAGE FILTER WORD 11															

30.4.20.1 IJMS Initial Entry Function Word. (Block 60, Word 3)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3																I E G

The bit designation shall be as follows:

BIT	DESIGNATION

0   INITIAL ENTRY GROUP (IEG)
          APPLICABLE TO THE ALTERNATE TRANSMISSION OF N7-1 AND J0.0
          MESSAGES
          LOGIC 0 = TADIL J ONLY XMIT
          LOGIC 1 = IJMS/TADIL J XMIT

1-15   NOT USED

NOTE: THESE IS NO "IJMS MESSAGE ONLY TRANSMISSION" IN THE INITIAL ENTRY
       GROUP.

NOTE: BLOCK 60 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII) OR BY NAVY
       AIRBORNE(Appendix IX).

INITIALIZATION BLOCK 60

30.4.20.2 IJMS Alternate Source Track Number. (Block 60, Word 4)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 4	VAL									ALTERNATE SOURCE TN						

The bit designation shall be as follows:

BIT   DESIGNATION

0-6   ALTERNATE SOURCE TN
           3 OCTAL DIGITS RANGING FROM 0 TO 177

                    D   D   D
                    1   2   3
                 ••••• ••••••••• •••••••••
           BITS 6   5,4,3   2,1,0

           LOGIC 0 = NO STATEMENT

7-14   NOT USED

15   VALIDITY (VAL)
           LOGIC 1 = ALTERNATE SOURCE TN

  NOTE: BLOCK 60 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII) OR BY NAVY
         AIRBORNE(Appendix IX).

INITIALIZATION BLOCK 60

30.4.20.3 IJMS Host Message Filter Words (Block 60, Words 5-20) .

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	CATEGORY	CODE
					SUBCATEGORY AND LABEL													
wd 1	7-1						4-1		3-1		2-1						N	0
wd 2	2-11	2-10	1-11		4-3		2-5	2-4	2-3	2-2	2-1		1-1				C	1
wd 3	7-1		6-1									1-2	1-1				I	2
wd 4								3-2	3-1	2-2	2-1		1-1				S	3
wd 5																	B	4
wd 6									3-1								M	5
wd 7																	A	6
wd 8																		7
wd 9																		8
wd 10																		9
wd 11																		10
wd 12																		11
wd 13		7		6		5		4		3		2	1			0	U	12
wd 14													1-1				V	13
wd 15								4	3				1				T	14
wd 16						5			3			2	1				P	15

LOGIC 1 = PROVIDE MESSAGES
LOGIC 0 = DO NOT PROVIDE MESSAGE   INITIALIZATION BLOCK 60

30.4.20.4 IJMS Host Addressed/Received Message Filter Word (Block 60, Word 21).

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 21	P				H D R	F T								ADDRESSED		
														A L L	S E C	P R I

The bit designation shall be as follows:

BIT	DESIGNATION
0	IJMS PRIMARY TRACK NUMBER MESSAGES FILTER (ADDRESSED PRI) LOGIC 1 = PROVIDE ALL IJMS MESSAGES ADDRESSED TO PRIMARY TN
1	IJMS SECONDARY TRACK NUMBER MESSAGE FILTER (ADDRESSED SEC) LOGIC 1 = PROVIDE ALL IJMS MESSAGES ADDRESSED TO SECONDARY TN
2	IJMS ALL ADDRESSED TRACK NUMBER MESSAGE FILTER (ADDRESSED ALL) LOGIC 1 = PROVIDE ALL IJMS ADDRESSED MESSAGES
3-9	NOT USED
10	IJMS FREE TEXT MESSAGES FILTER (FT) LOGIC 1 = PROVIDE IJMS FREE TEXT MESSAGES
11	IJMS RECEIVED MESSAGE HEADER FILTER (HDR) LOGIC 1 = PROVIDE IJMS RECEIVED MESSAGE HEADERS
12-14	NOT USED
15	IJMS P-MESSAGES FILTER (P) LOGIC 1 = DO NOT PROVIDE P-MESSAGES WITH STN>177$_8$

30.4.20.5 IJMS TSRD Message Filter Words (Block 60, Words 22 through 32). The word format for the IJMS TSRD Message Filter Words shall be the same as the IJMS Host Message Filter Words of 30.4.20.3.

NOTE: BLOCK 60 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII) OR BY NAVY AIRBORNE(Appendix IX).

INITIALIZATION BLOCK 60

30.4.21 Initialization Data Block 61.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 61 (SEE 30.4.1.2)															
wd 3	IJMS TSRD MESSAGE FILTER WORD 12															
wd 4	IJMS TSRD MESSAGE FILTER WORD 13															
wd 5	IJMS TSRD MESSAGE FILTER WORD 14															
wd 6	IJMS TSRD MESSAGE FILTER WORD 15															
wd 7	IJMS TSRD MESSAGE FILTER WORD 16															
wd 8	IJMS TSRD ADDRESSED/LOOPBACK MESSAGE FILTER WORD															
wd 9	TRANSMIT MESSAGE FILTER WORD 1															
wd 10	TRANSMIT MESSAGE FILTER WORD 2															
wd 11	TRANSMIT MESSAGE FILTER WORD 3															
wd 12	TRANSMIT MESSAGE FILTER WORD 4															
wd 13	TRANSMIT MESSAGE FILTER WORD 5															
wd 14	TRANSMIT MESSAGE FILTER WORD 6															
wd 15	TRANSMIT MESSAGE FILTER WORD 7															
wd 16	TRANSMIT MESSAGE FILTER WORD 8															
wd 17	TRANSMIT MESSAGE FILTER WORD 9															
wd 18	TRANSMIT MESSAGE FILTER WORD 10															
wd 19	TRANSMIT MESSAGE FILTER WORD 11															
wd 20	TRANSMIT MESSAGE FILTER WORD 12															
wd 21	TRANSMIT MESSAGE FILTER WORD 13															
wd 22	TRANSMIT MESSAGE FILTER WORD 14															
wd 23	TRANSMIT MESSAGE FILTER WORD 15															
wd 24	TRANSMIT MESSAGE FILTER WORD 16															
wd 25	TRANSMIT MESSAGE FILTER WORD 17															
wd 26	TRANSMIT MESSAGE FILTER WORD 18															
wd 27	TRANSMIT MESSAGE FILTER WORD 19															
wd 28	TRANSMIT MESSAGE FILTER WORD 20															
wd 29	TRANSMIT MESSAGE FILTER WORD 21															
wd 30	TRANSMIT MESSAGE FILTER WORD 22															
wd 31	TRANSMIT MESSAGE FILTER WORD 23															
wd 32	TRANSMIT MESSAGE FILTER WORD 24															

30.4.21.1 <u>IJMS TSRD Message Filter Words (Block 61, Words 3 through 7)</u>.
These words are a continuation of 30.4.20.5.

   NOTE: BLOCK 61 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII) OR BY NAVY
          AIRBORNE(Appendix IX).

30.4.21.2 <u>IJMS TSRD Addressed/Loopback/Received Message Filter Word (Block
61, Word 8)</u>.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 8					H D R	F T				LOOPBACK				ADDRESSED		
										A L L	R T T	T E S T	P	A L L	S E C	P R I

   The bit designation shall be as follows:

        <u>BIT</u>   <u>DESIGNATION</u>

         0   IJMS PRIMARY TRACK NUMBER MESSAGES FILTER (ADDRESSED
                        PRI)
                        LOGIC 1 = PROVIDE ALL IJMS MESSAGES ADDRESSED TO
                                  PRIMARY TN

         1   IJMS SECONDARY TRACK NUMBER MESSAGES FILTER (ADDRESSED
                        SEC)
                        LOGIC 1 = PROVIDE ALL IJMS MESSAGES ADDRESSED TO
                                  SECONDARY TN

         2   IJMS ALL ADDRESSED TRACK NUMBER MESSAGES FILTER
                        (ADDRESSED ALL)
                        LOGIC 1 = PROVIDE ALL IJMS ADDRESSED MESSAGES

         3   IJMS P LOOPBACK MESSAGES FILTER
                        LOGIC 1 = PROVIDE ALL IJMS P LOOPBACK MESSAGES

         4   IJMS TEST LOOPBACK MESSAGES FILTER
                        LOGIC 1 = PROVIDE ALL IJMS TEST LOOPBACK MESSAGES

         5   IJMS RTT LOOPBACK MESSAGES FILTER
                        LOGIC 1 = PROVIDE ALL IJMS RTT LOOPBACK MESSAGES

         6   IJMS LOOPBACK MESSAGES FILTER
                        LOGIC 1 =PROVIDE ALL IJMS LOOPBACK MESSAGES

    NOTE: BLOCK 61 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII) OR BY
           NAVY AIRBORNE(Appendix IX).

                        INITIALIZATION BLOCK 61

BIT   DESIGNATION (CONTINUED)

7-9   NOT USED

10   IJMS FREE TEXT MESSAGES FILTER (FT)
          LOGIC 1 = PROVIDE IJMS FREE TEXT MESSAGES

11   IJMS RECEIVED MESSAGE HEADER FILTER (HDR)
          LOGIC 1 = PROVIDE IJMS RECEIVED MESSAGE HEADERS

12-15   NOT USED

NOTE: BLOCK 61 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII) OR BY NAVY
       AIRBORNE(Appendix IX).

INITIALIZATION BLOCK 61

30.4.21.3   Transmit Message Filter Words (TADIL J/IJMS). (Block 61, Words 9 through 32 and Block 62, Words 3 through 10).

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
1st wd	J0.7	J0.7	J0.6	J0.6	J0.5	J0.5	J0.4	J0.4	J0.3	J0.3	J0.2	J0.2	J0.1	J0.1	J0.0	J0.0	wd 9
2nd wd	J1.7	J1.7	J1.6	J1.6	J1.5	J1.5	J1.4	J1.4	J1.3	J1.3	J1.2	J1.2	J1.1	J1.1	J1.0	J1.0	wd 10
3rd wd	J2.7	J2.7	J2.6	J2.6	J2.5	J2.5	J2.4	J2.4	J2.3	J2.3	J2.2	J2.2	J2.1	J2.1	J2.0	J2.0	wd 11
4th wd	J3.7	J3.7	J3.6	J3.6	J3.5	J3.5	J3.4	J3.4	J3.3	J3.3	J3.2	J3.2	J3.1	J3.1	J3.0	J3.0	wd 12
5th wd	J4.7	J4.7	J4.6	J4.6	J4.5	J4.5	J4.4	J4.4	J4.3	J4.3	J4.2	J4.2	J4.1	J4.1	J4.0	J4.0	wd 13
6th wd	J5.7	J5.7	J5.6	J5.6	J5.5	J5.5	J5.4	J5.4	J5.3	J5.3	J5.2	J5.2	J5.1	J5.1	J5.0	J5.0	wd 14
7th wd	J6.7	J6.7	J6.6	J6.6	J6.5	J6.5	J6.4	J6.4	J6.3	J6.3	J6.2	J6.2	J6.1	J6.1	J6.0	J6.0	wd 15
8th wd	J7.7	J7.7	J7.6	J7.6	J7.5	J7.5	J7.4	J7.4	J7.3	J7.3	J7.2	J7.2	J7.1	J7.1	J7.0	J7.0	wd 16
9th wd	J8.7	J8.7	J8.6	J8.6	J8.5	J8.5	J8.4	J8.4	J8.3	J8.3	J8.2	J8.2	J8.1	J8.1	J8.0	J8.0	wd 17
10th wd	J9.7	J9.7	J9.6	J9.6	J9.5	J9.5	J9.4	J9.4	J9.3	J9.3	J9.2	J9.2	J9.1	J9.1	J9.0	J9.0	wd 18
11th wd	J10.7	J10.7	J10.6	J10.6	J10.5	J10.5	J10.4	J10.4	J10.3	J10.3	J10.2	J10.2	J10.1	J10.1	J10.0	J10.0	wd 19
12th wd	J11.7	J11.7	J11.6	J11.6	J11.5	J11.5	J11.4	J11.4	J11.3	J11.3	J11.2	J11.2	J11.1	J11.1	J11.0	J11.0	wd 20
13th wd	J12.7	J12.7	J12.6	J12.6	J12.5	J12.5	J12.4	J12.4	J12.3	J12.3	J12.2	J12.2	J12.1	J12.1	J12.0	J12.0	wd 21
14th wd	J13.7	J13.7	J13.6	J13.6	J13.5	J13.5	J13.4	J13.4	J13.3	J13.3	J13.2	J13.2	J13.1	J13.1	J13.0	J13.0	wd 22
15th wd	J14.7	J14.7	J14.6	J14.6	J14.5	J14.5	J14.4	J14.4	J14.3	J14.3	J14.2	J14.2	J14.1	J14.1	J14.0	J14.0	wd 23
16th wd	J15.7	J15.7	J15.6	J15.6	J15.5	J15.5	J15.4	J15.4	J15.3	J15.3	J15.2	J15.2	J15.1	J15.1	J15.0	J15.0	wd 24
17th wd	J16.7	J16.7	J16.6	J16.6	J16.5	J16.5	J16.4	J16.4	J16.3	J16.3	J16.2	J16.2	J16.1	J16.1	J16.0	J16.0	wd 25
18th wd	J17.7	J17.7	J17.6	J17.6	J17.5	J17.5	J17.4	J17.4	J17.3	J17.3	J17.2	J17.2	J17.1	J17.1	J17.0	J17.0	wd 26
19th wd	J18.7	J18.7	J18.6	J18.6	J18.5	J18.5	J18.4	J18.4	J18.3	J18.3	J18.2	J18.2	J18.1	J18.1	J18.0	J18.0	wd 27
20th wd	J19.7	J19.7	J19.6	J19.6	J19.5	J19.5	J19.4	J19.4	J19.3	J19.3	J19.2	J19.2	J19.1	J19.1	J19.0	J19.0	wd 28
21st wd	J20.7	J20.7	J20.6	J20.6	J20.5	J20.5	J20.4	J20.4	J20.3	J20.3	J20.2	J20.2	J20.1	J20.1	J20.0	J20.0	wd 29
22nd wd	J21.7	J21.7	J21.6	J21.6	J21.5	J21.5	J21.4	J21.4	J21.3	J21.3	J21.2	J21.2	J21.1	J21.1	J21.0	J21.0	wd 30
23rd wd	J22.7	J22.7	J22.6	J22.6	J22.5	J22.5	J22.4	J22.4	J22.3	J22.3	J22.2	J22.2	J22.1	J22.1	J22.0	J22.0	wd 31
24th wd	J23.7	J23.7	J23.6	J23.6	J23.5	J23.5	J23.4	J23.4	J23.3	J23.3	J23.2	J23.2	J23.1	J23.1	J23.0	J23.0	wd 32
25th wd	J24.7	J24.7	J24.6	J24.6	J24.5	J24.5	J24.4	J24.4	J24.3	J24.3	J24.2	J24.2	J24.1	J24.1	J24.0	J24.0	wd 3
26th wd	J25.7	J25.7	J25.6	J25.6	J25.5	J25.5	J25.4	J25.4	J25.3	J25.3	J25.2	J25.2	J25.1	J25.1	J25.0	J25.0	wd 4
27th wd	J26.7	J26.7	J26.6	J26.6	J26.5	J26.5	J26.4	J26.4	J26.3	J26.3	J26.2	J26.2	J26.1	J26.1	J26.0	J26.0	wd 5
28th wd	J27.7	J27.7	J27.6	J27.6	J27.5	J27.5	J27.4	J27.4	J27.3	J27.3	J27.2	J27.2	J27.1	J27.1	J27.0	J27.0	wd 6
29th wd	J28.7	J28.7	J28.6	J28.6	J28.5	J28.5	J28.4	J28.4	J28.3	J28.3	J28.2	J28.2	J28.1	J28.1	J28.0	J28.0	wd 7
30th wd	J29.7	J29.7	J29.6	J29.6	J29.5	J29.5	J29.4	J29.4	J29.3	J29.3	J29.2	J29.2	J29.1	J29.1	J29.0	J29.0	wd 8
31st wd	J30.7	J30.7	J30.6	J30.6	J30.5	J30.5	J30.4	J30.4	J30.3	J30.3	J30.2	J30.2	J30.1	J30.1	J30.0	J30.0	wd 9
32nd wd	J31.7	J31.7	J31.6	J31.6	J31.5	J31.5	J31.4	J31.4	J31.3	J31.3	J31.2	J31.2	J31.1	J31.1	J31.0	J31.0	wd 10

INITIALIZATION BLOCK 61

The Transmit Message Filter Words (TADIL J/IJMS) (Block 61, Words 9 through 32 and Block 62, Words 3 through 10) shall be used to indicate which messages are to be transmitted. The bit designation shall be as follows:

BIT (N+1)	BIT (N)	DESIGNATION
0	0	TRANSMIT TADIL J ONLY
0	1	TRANSMIT IJMS ONLY
1	0	NOT USED
1	1	TRANSMIT TADIL J AND IJMS

NOTE: BLOCK 61 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII) OR BY NAVY AIRBORNE(Appendix IX).

INITIALIZATION BLOCK 61

30.4.22 Initialization Data Block 62.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 61 (SEE 30.4.1.2)															
wd 3	TRANSMIT MESSAGE FILTER WORD 25															
wd 4	TRANSMIT MESSAGE FILTER WORD 26															
wd 5	TRANSMIT MESSAGE FILTER WORD 27															
wd 6	TRANSMIT MESSAGE FILTER WORD 28															
wd 7	TRANSMIT MESSAGE FILTER WORD 29															
wd 8	TRANSMIT MESSAGE FILTER WORD 30															
wd 9	TRANSMIT MESSAGE FILTER WORD 31															
wd 10	TRANSMIT MESSAGE FILTER WORD 32															
wd 11	IJMS TESTING															
wd 12	TRACK NUMBER, NATO WORD															
wd 13	ALTERNATE SLOT ASSIGNMENT, WORD															
wd 14	ALTERNATE SLOT ASSIGNMENT, WORD															
wd 15	ALTERNATE SLOT ASSIGNMENT, WORD															
wd 16	ALTERNATE SLOT ASSIGNMENT, WORD															
wd 17	ALTERNATE SLOT ASSIGNMENT, WORD															
wd 18	ALTERNATE SLOT ASSIGNMENT, WORD															
wd 19	SACP RECEIVED TRANSLATION FILTERS (IJMS MESSAGES), WORD 1															
wd 20	NOT USED															
wd 21	NOT USED															
wd 22	NOT USED															
wd 23	NOT USED															
wd 24	NOT USED															
wd 25	NOT USED															
wd 26	NOT USED															
wd 27	NOT USED															
wd 28	NOT USED															
wd 29	NOT USED															
wd 30	NOT USED															
wd 31	NOT USED															
wd 32	NOT USED															

30.4.22.1 <u>Transmit Message Filter Words (TADIL J/IJMS) (Block 62, Words 3 through 10)</u>. These words are a continuation of 30.4.21.3.

 NOTE: BLOCK 62 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII) OR BY NAVY AIRBORNE(Appendix IX).

30.4.22.2 <u>IJMS Testing (Block 62, Word 11)</u>.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 11															RATE	

MSB ... LSB

The bit designation shall be as follows:

<u>BIT</u>   <u>DESIGNATION</u>

0-1   HOST ADJUSTMENT FOR IJMS MESSAGE TRANSLATION RATE
             (RATE)
             (SHALL ALWAYS BE SET TO ZERO OPERATIONALLY)

             BITS 1 • 0
                   •••••••
                   0 • 0   ALLOW NOMINAL TRANSLATION RATE
                   0 • 1   ALLOW INTERMEDIATE-LEVEL RATE
                   1 • 0   ALLOW MAXIMUM TRANSLATION RATE
                   1 • 1   ALLOW MAXIMUM TRANSLATION RATE

2-15   NOT USED

INITIALIZATION BLOCK 62

30.4.22.3 Track Number, NATO (Block 62, Word 12).

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 12		TN														

The bit designation shall be as follows:

BIT	DESIGNATION
0-14	NATO TRACK NUMBER (TN)

CONSISTS OF FIVE OCTAL DIGITS (00000 TO 77777)

```
        D          D         D        D        D
        4          3         2        1        0
      ••••••••• ••••••••• ••••••• ••••••• •••••••
BITS  14,13,12  11,10,9   8,7,6   5,4,3   2,1,0
0 = NO STATEMENT
```

15   NOT USED

NOTE: BLOCK 62 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII) OR BY NAVY AIRBORNE(Appendix IX).

INITIALIZATION BLOCK 62

30.4.22.4 Alternate Slot Assignment (ASA) (Block 62, Words 13 through 18).
 The alternate slot assignment is to be used to assign receive time slots
intended for IJMS net entry only.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
			MSB													LSB
wd 13				RR				MSB		NET LSB					SET	
wd 14		MSB		INDEX SLOT												LSB
wd 15																
wd 16																
wd 17																
wd 18	AN ESD			TSEC												

The bit designation shall be as follows:

WORD 13

BIT	DESIGNATION
0-1	SET

```
        BIT  1 • 0
             •••••••
             0 • 0   ILLEGAL IF ANESD = 1
             0 • 1   SET A
             1 • 0   SET B
             1 • 1   SET C
```

BIT	DESIGNATION
2-8	NET NUMBER (NET) - DEFINES THE NET NUMBER TO BE USED FOR THIS BLOCK ASSIGNMENT 0-126 = ASSIGNED NET 127 = ILLEGAL
9-12	RECURRENCE RATE (RR) 2 - 15 = ASSIGNED RECURRENCE RATE VALUES 0, 1 ARE ILLEGAL.
13-15	NOT USED

WORD 14

BIT	DESIGNATION
0-14	INDEX SLOT NUMBER 0 - 32767 = ASSIGNED SLOT NUMBER
15	NOT USED

INITIALIZATION BLOCK 62

WORD 15

BIT	DESIGNATION
0-15	NOT USED

WORD 16

BIT	DESIGNATION
0-15	NOT USED

WORD 17

BIT	DESIGNATION
0-15	NOT USED

WORD 18

BIT	DESIGNATION
0-7	NOT USED
8-14	TSEC VARIABLE (TSEC) DEFINED THE TRANSEC VARIABLE RANGE = 1-127
15	ALTERNATE NET ENTRY SLOT DESIGNATOR (ANESD) LOGIC 1 = USE THIS ASSIGNMENT FOR IJMS NET ENTRY PROCEDURE LOGIC 0 = USE NORMAL NET ENTRY PROCEDURE

   NOTE: BLOCK 62 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII) OR BY NAVY
          AIRBORNE(Appendix IX).

INITIALIZATION BLOCK 62

30.4.22.5 SACP Received Translation Filters (IJMS Messages) (Block 62,
Word 19). Reserved for SICP test. Not used operationally.

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 19	P	STN														

The bit designation shall be as follows:

BIT	DESIGNATION

    0-14   SOURCE TRACK NUMBER (STN)
                CONSISTS OF FIVE OCTAL DIGITS (00000 TO 77777)

                        D   D   D   D   D
                        4   3   2   1   0
                     ••••••••• ••••••••• ••••••• ••••••• •••••••
                BITS 14,13,12 11,10,9   8,7,6   5,4,3   2,1,0
    15   PROVIDE MESSAGE REQUEST (P)
                LOGIC 0 = DO NOT PROVIDE MESSAGES
                LOGIC 1 = PROVIDE P MESSAGES BY STN, IF STN 0 (BUT ONLY IF
                          THE IJMS HOST MESSAGE FILTER WORD ALLOWS
                          TRANSLATION OF THE P MESSAGE FOR TRANSFER TO THE
                          HOST).

    NOTE: BLOCK 62 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII) OR BY NAVY
           AIRBORNE(Appendix IX).

                                        INITIALIZATION BLOCK 62

30.4.23 Initialization Data Block 63.

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 1	CHECKSUM (SEE 30.4.1.1)															
wd 2	CONTROL WORD FOR INITIALIZATION BLOCK 63 (SEE 30.4.1.2)															
wd 3	MODE CONTROL WORD (NOT USED BY F-15)															
wd 4	VOICE CHANNEL SELECT (NOT USED BY F-15)															
wd 5	CONTROL CHANNEL SELECT (NOT USED BY F-15)															
wd 6	RESET WORD (NOT USED BY F-15)															
wd 7	TIME OF DAY WORD 1 (NOT USED BY F-15)															
wd 8	TIME OF DAY WORD 2 (NOT USED BY F-15)															
wd 9	TIME OF DAY ERROR (NOT USED BY F-15)															
wd 10	TACAN CONTROL WORD 1 (NOT USED BY F-15)															
wd 11	TACAN CONTROL WORD 2 (NOT USED BY F-15)															
wd 12	TACAN CONTROL WORD 3 (NOT USED BY F-15)															
wd 13	TACAN CONTROL WORD 4 (NOT USED BY F-15)															
wd 14	IFF CODES WORD 1 (NOT USED BY F-15)															
wd 15	IFF CODES WORD 2 (NOT USED BY F-15)															
wd 16	IFF CODES WORD 3 (NOT USED BY F-15)															
wd 17	VOICE CALL SIGN WORD 1															
wd 18	VOICE CALL SIGN WORD 2															
wd 19	VOICE FREQUENCY/CHANNEL WORD 1 (NOT USED BY F-15)															
wd 20	RECEIVER/SYNTHESIZER CIRCUMVENTION (NOT USED BY F-15)															
wd 21	TADIL C ADDRESS (NOT USED BY F-15)															
wd 22	NOT USED															
wd 23	NOT USED															
wd 24	NOT USED															
wd 25	NOT USED															
wd 26	NOT USED															
wd 27	NOT USED															
wd 28	NOT USED															
wd 29	NOT USED															
wd 30	NOT USED															
wd 31	NOT USED															
wd 32	NOT USED															

30.4.23.1 _Mode Control Word_. (Block 63, Word 3)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 3	L B S				TACAN STOP						XMIT ANT		S N E	T O R D E	BIT	
					X P O N D	I N T E										

The bit designation shall be as follows:

BIT	DESIGNATION

0-1   BIT COMMAND (BIT)

      BIT 1 • 0
        •••••••
        0 • 0   NORMAL
        0 • 1   LRU BIT COMMAND
        1 • 0   SRU BIT COMMAND (NOT USED BY F-15)
        1 • 1   NOT USED

2   THERMAL OVERRIDE COMMAND (TORDE)H
      LOGIC 1 = THERMAL OVERRIDE
      LOGIC 0 = NO THERMAL OVERRIDE

3   START NET ENTRY COMMAND (SNE)
      LOGIC 1 = START NET ENTRY
      LOGIC 0 = DO NOT START NET ENTRY

4-5   TRANSMIT ANTENNA (XMIT ANT)

      BIT 5 • 4
        •••••••
        0 • 0   DUAL ANTENNA CONFIGURATION
        0 • 1   ANTENNA A
        1 • 0   ANTENNA B
        1 • 1   NOT USED

6-9   NOT USED

H THIS FIELD IS ALWAYS STORED AS ZERO IN NON-VOLATILE GLOBAL MEMORY.

INITIALIZATION BLOCK 63

BIT	DESIGNATION

10   TACAN STOP INT (INT)
            LOGIC 1 = NORMAL
            LOGIC 0 = STOP INTERROGATION

11   TACAN STOP TRANSPOND (XPOND)
            LOGIC 1 = NORMAL
            LOGIC 0 = STOP INTERROGATION

12-14   NOT USED

15   LOOPBACK SELECT (LBS)
            LOGIC 1 = CPSM   IF LOOPBACK
            LOGIC 0 = NORMAL RF LOOPBACK

            FOR NAVY SHIPBOARD:
            For the Navy Shipboard unique values of Mode Control word,
            see Appendix VIII.

            FOR NAVY AIRBORNE:
            For the Navy Airborne unique values of Mode Control word,
            see Appendix VIII.

NOTE: Bits 10-15 for internal NICP-SICP use (F-15, Army,
      E-3 and MCE ONLY).

INITIALIZATION BLOCK 63

30.4.23.2 Voice Channel Select. (Block 63, Word 4)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 4		VOICE B CHANNEL								VOICE A CHANNEL					

The bit designation shall be as follows:

BIT	DESIGNATION
0-6	VOICE A CHANNEL NET NUMBER 0-126 = ASSIGNED NET 127 = VOICE A CHANNEL ASSIGNMENTS ARE DEACTIVATED.
7	NOT USED
8-14	VOICE B CHANNEL NET NUMBER 0-126 = ASSIGNED NET 127 = VOICE B CHANNEL ASSIGNMENTS ARE DEACTIVATED.
15	NOT USED

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique Voice Channel Select word, see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique Voice Channel Select word, see Appendix VIII.

NOTE: The SICP shall use the voice initialization data in Table III-III to determine the voice control parameters for each of two simultaneous voice channels. Whenever a new voice channel A/B net number is selected, the SICP shall implement the change indicated. If net 127 is selected, the subfunction shall deactivate the time slot assignments associated with that channel and set the channel status to Net Selected Shutdown. If one of two special nets as specified in the JTIDS Voice Group paragraph of the System Segment Specification is selected, the SICP shall activate the time slot assignments associated with that net and set the special net bit to indicate a special net is being used. If some other net is selected, the SICP shall activate the common time slot assignments as specified in the JTIDS Voice Group paragraph of the System Segment Specification. The SICP shall clear the special net bit to indicate that the common time slot assignment is being used and set the Message Security (MSEC) cryptovariable label to the value of the MSEC variable associated with the selected net in the Voice/Control Channel SDU Variable Definition Words.

INITIALIZATION BLOCK 63

If the specified net is out of the range of defined MSEC variables, the MSEC Cryptovariable Label shall be set to the no statement value, and the NICP will determine the MSEC variable. If no common time slot assignments are given the SICP shall set the channel status to "Slot assignment(s) not compatible with voice selection."

The SICP shall use the recurrence rates in the time slot assignments activated, the voice port rate control data, and the port coded voice indication to determine the necessary packing for voice messages as specified in Table III-IV. The SICP shall set the packing using the necessary packing and voice channel packing limit as specified in Table III-V.

When the voice port rate is 16 kb/s the SICP shall set the slot suppression bit to indicate that suppression is required and set the suppression modulus to three for a three block assignment or six for a one block assignment. The Voice Initialization and Control subfunction shall send the packing, channel status, voice channelization and port coded voice indication to the Voice function and all voice control parameters to the Status function for reporting in the SICP Status DTB.

INITIALIZATION BLOCK 63

30.4.23.3 <u>Control Channel Select</u>. (Block 63, Word 5)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 5										CONTROL CHANNEL						

The bit designation shall be as follows:

> BIT   DESIGNATION
>
> 0-6   CONTROL CHANNEL NET NUMBER
>   0-126 = ASSIGNED NET
>   127 = CONTROL CHANNEL ASSIGNMENTS ARE DEACTIVATED.
> 7-15   NOT USED
>
> FOR NAVY SHIPBOARD:
> For the Navy Shipboard unique Control Channel Select word, see Appendix VIII.
>
> FOR NAVY AIRBORNE:
> For the Navy Airborne unique Control Channel Select word, see Appendix VIII.

INITIALIZATION BLOCK 63

TABLE III-III. VOICE INITIALIZATION DATA

VOICE INITIALIZATION DATA	REFERENCES
COMMUNICATIONS MODE	30.4.2.1
IPF OVERRIDE	30.4.2.1
VOICE CHANNELIZATION	30.4.2.17
VOICE PORT 1 AND 2 RATES	30.4.2.17
PORT 1 AND 2 CODED VOICE INDICATION	30.4.2.17
VOICE/CONTROL CHANNEL SDU VARIABLE DEFINITION WORDS	30.4.6.1
MESSAGE STRUCTURE (NOTE 1) (VOICE CHANNEL A PACKING LIMIT)	30.4.9.2
MESSAGE STRUCTURE (NOTE 1) (VOICE CHANNEL B PACKING LIMIT)	30.4.9.2
VOICE CHANNEL A NET NUMBER	30.4.23.2
VOICE CHANNEL B NET NUMBER	30.4.23.2

NOTE: 1. WHEN MESSAGE STRUCTURE WORDS ARE NOT GIVEN, USE TERMINAL
DEFAULT PACKING LIMIT.

INITIALIZATION BLOCK 63

TABLE III-IV. NECESSARY PACKING

1 BLOCK ASSIGNMENT			
RECURRENCE RATE	NECESSARY PACKING		
	16 kb/s UNCODED	2.4 kb/s CODED	2.4 kb/s UNCODED
15	STANDARD	ILLEGAL	ILLEGAL
14	PACKED-2H	ILLEGAL	ILLEGAL
13	PACKED-4I	STANDARDI	ILLEGAL
12	INSUFFICIENT SLOTS ASSIGNED	PACKED-2HH	STANDARDHH
11	INSUFFICIENT SLOTS ASSIGNED	PACKED-4HH	PACKED-2HH
10	INSUFFICIENT SLOTS ASSIGNED	INSUFFICIENT SLOTS ASSIGNED	PACKED-4HH
<10	INSUFFICIENT SLOTS ASSIGNED	INSUFFICIENT SLOTS ASSIGNED	INSUFFICIENT SLOTS ASSIGNED

3 BLOCK ASSIGNMENT (16 kb/s uncoded only)	
RECURRENCE RATE	NECESSARY PACKING
14,13,12	STANDARD
13,12,11	PACKED-2H
12,11,10	PACKED-4H
OTHER	INSUFFICIENT SLOTS ASSIGNED

H ALLOWABLE RELAY DELAYS, IF ANY = 7-11
I ALLOWABLE RELAY DELAYS, IF ANY = 6-23 (EXCEPT 12 WHEN RR = 13)
HH ALLOWABLE RELAY DELAYS, IF ANY = 6-31 (EXCEPT 24 WHEN RR = 12)

INITIALIZATION BLOCK 63

TABLE III-V. PACKING

VOICE CHANNEL A/B PACKING LIMIT	NECESSARY PACKING (SEE TABLE III-III)		
	STANDARD	PACKED-2	PACKED-4
STANDARD	STANDARD	INSUFFICIENT SLOTS DUE TO PACK	INSUFFICIENT SLOTS DUE TO PACK
PACKED-2 DOUBLE PULSE	STANDARD	PACKED-2 DP	INSUFFICIENT SLOTS DUE TO PACK
PACKED-2 SINGLE PULSE	STANDARD	PACKED-2 SP	INSUFFICIENT SLOTS DUE TO PACK
PACKED-4	STANDARD	PACKED-2 DP	PACKED-4

INITIALIZATION BLOCK 63

30.4.23.4 Reset Word. (Block 63, Word 6)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	MSB															LSB
wd 6														I P F R	N A V R	N E R

The bit designation shall be as follows:

BIT	DESIGNATION
0	NET ENTRY RESET (NER) H LOGIC 1 = REINITIATE NET ENTRY
1	NAVIGATION RESET (NAVR) H LOGIC 1 = PERFORM NAV RESET
2	IPF RESET (IPFR) H LOGIC 1 = PERFORM IPF RESET
3-15	NOT USED

H THIS FIELD IS ALWAYS STORED AS ZERO IN GLOBAL MEMORY.

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique Reset Word, see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique Reset Word, see Appendix VIII.

INITIALIZATION BLOCK 63

30.4.23.5 Time of Day. (Block 63, Words 7 and 8) A change to these fields, made after the Start Net Entry Command (see 30.4.19.1) has been sent, is not effective unless a Net Entry Reset (see 30.4.19.4) is subsequently (or concurrently) entered.

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 7	VAL					MSB	HOURS			LSB	MSB	MINUTES				LSB
wd 8				MSB	SECONDS				LSB	MSB	SLOTS					LSB

The bit designation shall be as follows:

WORD 1

BIT	DESIGNATION

0-5   TIME OF DAY MINUTES (0-59)
           LSB: 1 MINUTE
           DEFAULT VALUE: 0

6-10   TIME OF DAY HOURS (0-23)
           LSB: 1 HOUR
           DEFAULT VALUE: 0

11-14   NOT USED

15   VALIDITY (VAL)H
           LOGIC 0 = TIME OF DAY NOT VALID, USE CHRONOMETER – DEFAULT
                     VALUE
           LOGIC 1 = TIME OF DAY IS VALID

WORD 2

BIT	DESIGNATION

0-6   TIME OF DAY SLOTS (0-127)
           LSB: 1 SLOT
           DEFAULT VALUE: 0

7-12   TIME OF DAY SECONDS (0-59)
           LSB: 1 SECOND
           DEFAULT VALUE: 0

13-15   NOT USED

H THIS FIELD IS ALWAYS STORED AS ZERO IN GLOBAL MEMORY

INITIALIZATION BLOCK 63

30.4.23.6 _Time of Day Error_. (Block 63, Word 9)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 9	V A L				M S B		MINUTES			L S B	M S B		SECONDS			L S B

The bit designation shall be as follows:

BIT	DESIGNATION
0-5	TIME OF DAY ERROR SECONDS LSB: 1 SECOND VALID RANGE: 0-59 SECONDS DEFAULT VALUE: 0
6-11	TIME OF DAY ERROR MINUTES LSB: 1 MINUTE VALID RANGE: 0-59 MINUTES DEFAULT VALUE: 0
12-14	NOT USED
15	VALIDITY (VAL)H LOGIC 1 = TIME OF DAY ERROR VALID LOGIC 0 = TIME OF DAY ERROR INVALID

NOTE: A VALID TIME OF DAY ERROR OF 0 MINUTES, 0 SECONDS WILL BE
        INTERPRETED AS AN ERROR OF 6 SECONDS.

        IF THE TERMINAL HAS BEEN ASSIGNED AS THE NET TIME REFERENCE VIA
        INITIALIZATION BLOCK 1, THEN THIS WORD IS "DON'T CARE".

H THIS FIELD IS ALWAYS STORED AS ZERO IN NON-VOLATILE GLOBAL MEMORY.

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique Time of Day Error word, see Appendix
VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique Time of Day Error word, see Appendix
VIII.

INITIALIZATION BLOCK 63

30.4.23.7 TACAN Control Words. (Block 63, Words 10 through 13)

	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
	MSB															LSB	
wd 10	TACAN ANT PORT SEL			PWR TEST	A/A	T/R REC ONLY	X/Y	PWR TEST	CHANNEL								MODE/ CHANNEL SELECT
									TENS				UNITS				
wd 11	0	0	0	D M E D L Y	ANTENNA DELAY B					ANTENNA DELAY A							ANT CABLE DELAY
wd 12	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	OUTPUT PARA-METERS
wd 13																	

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique TACAN Control Words, see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique TACAN Control Words, see Appendix VIII.

The bit designation shall be as follows:

WORD 10   TACAN MODE/CHANNEL SELECT

   BIT   DESIGNATION

   0-7   TACAN CHANNEL NUMBER
                RANGE: 1-126
                0 = NO STATEMENT

                                    INITIALIZATION BLOCK 63

BIT   DESIGNATION (CONTINUED)

0-3   TACAN CHANNEL - UNITS
        RANGE: 0-9
        LSB = 1

4-7   TACAN CHANNEL - TENS
        RANGE: 0-120
        LSB = 10

8   POWER TEST (PWR TEST)
        THIS IS A TWO (2) BIT FIELD. THE OTHER BIT OF THIS FIELD IS
        LOCATED IN BIT 12 OF THIS WORD.

        BIT 12 • 8
             ....
             0 • 0   OFF - DEFAULT
             0 • 1   LOGIC TEST ONLY
             1 • 0   NORMAL TACAN ON/TEST OFF
             1 • 1   COMPLETE TEST

9   X MODE/Y MODE (X/Y)
        LOGIC 1 = X MODE
        LOGIC 0 = Y MODE

10   TRANSMIT/RECEIVE - RECEIVE ONLY (T/R - REC ONLY)
        LOGIC 1 = TRANSMIT/RECEIVE
        LOGIC 0 = RECEIVE ONLY

11   MODE (A/A)
        LOGIC 1 = AIR/AIR MODE
        LOGIC 0 = GROUND/AIR MODE

12   POWER TEST (PWR TEST)
        SEE BIT 8 OF THIS WORD

13   NOT USED

14-15   TACAN ANTENNA SELECT

        BIT   15 • 14
             ....
             0 • 0   AUTO ANTENNA SELECT
             0 • 1   AUTO ANTENNA SELECT
             1 • 0   ANTENNA B
             1 • 1   ANTENNA A

                                INITIALIZATION BLOCK 63

        III-164

WORD 11   TACAN ANTENNA CABLE DELAY

    BIT   DESIGNATION

    0-5   TACAN ANTENNA A CABLE DELAY
                 LSB: 166.6 NANOSECONDS
                 RANGE: 0 - 10495.8 NANOSECONDS

    6-11   TACAN ANTENNA B CABLE DELAY
                 LSB: 166.6 NANOSECONDS
                 RANGE: 0 - 10495.8 NANOSECONDS

    12   DME DELAY (GROUND-TO-AIR Y MODE)
                 LOGIC 1 = 74 MICROSECONDS (US)
                 LOGIC 0 = 56 MICROSECONDS (UK)

    13-15   SET TO LOGIC 0

WORD 12   OUTPUT PARAMETER

    BIT   DESIGNATION

    0-15   OUTPUT PARAMETER
                 SELECTS TACAN WORDS TO BE OUTPUT BY R/T
                 LOGIC 1 = PROVIDE CORRESPONDING TACAN OUTPUT WORD
                 LOGIC 0 = DO NOT PROVIDE CORRESPONDING TACAN OUTPUT WORD

    NOTE: SEE NOTATIONS IN PARAGRAPH 50.1.2.2.3 (OUTPUT WORD SELECT).

WORD 13

    BIT   DESIGNATION

    0-15   SPARE

INITIALIZATION BLOCK 63

30.4.23.8 <u>IFF CODES</u>. (Block 63, Words 14 through 16)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 14																
wd 15																
wd 16																

The bit designation shall be as follows:

    IFF CODES AS DEFINED IN Y256C052 AND JTIDS TIDP

30.4.23.9 <u>Voice Call Sign</u>. (Block 63, Words 17 and 18)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 17																
wd 18	V C S I															

The bit designation shall be as follows:

    FOR VOICE CALL SIGN CODES AND VOICE CALL SIGN INDICATOR (VCSI) AS
    DEFINED IN Y256C052

  NOTE: BLOCK 63, WORDS 17 AND 18 ARE NOT USED BY NAVY SHIPBOARD
    (Appendix VIII) OR BY NAVY AIRBORNE(Appendix IX).

                              INITIALIZATION BLOCK 63

30.4.23.10 Voice Frequency/Channel. (Block 63, Word 19)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 19																

The bit designation shall be as follows:

VOICE FREQUENCY/CHANNEL AS DEFINED IN JINTACCS JTIDS TIDP AND
Y256C052.

NOTE: BLOCK 63, WORD 19 IS NOT USED BY NAVY SHIPBOARD (Appendix VIII)
OR BY NAVY AIRBORNE(Appendix IX).

30.4.23.11 Receiver/Synthesizer Circumvention. (Block 63, Word 20)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 20																R / S

The bit designation shall be as follows:

BIT   DESIGNATION

0   RECEIVER/SYNTHESIZER CIRCUMVENTION (R/S)
           LOGIC 1 = MONITOR R/S PERFORMANCE AND CIRCUMVENT
           LOGIC 0 = DO NOT MONITOR R/S PERFORMANCE

1-15   NOT USED

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique Receiver/Synthesizer Circumvention Word,
see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique Receiver/Synthesizer Circumvention Word,
see Appendix VIII.

INITIALIZATION BLOCK 63

30.4.23.12 TADIL C Address. (Block 63, Word 21)

	MSB															LSB
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
wd 21	T C A I	TADIL C ADDRESS														

The bit designation shall be as follows:

TADIL C ADDRESS AND TADIL C ADDRESS INDICATOR (TCAI) AS DEFINED IN
Y256C052.

FOR NAVY SHIPBOARD:
For the Navy Shipboard unique TADIL C Address Word, see Appendix VIII.

FOR NAVY AIRBORNE:
For the Navy Airborne unique TADIL C Address Word, see Appendix VIII.

INITIALIZATION BLOCK 63